



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|----------|-----------|--------------|--------|--------|-----------------------|---|-------------|---------|--------------|-----------|-----------|-------------------|-------------------|-----------|--------|--------------|--------------|-------|
| PO038785 | ACI001-VC | 1 | 1 | Net 30 | MT-A513-T-1.000W0.128 | A513 Seamless Alloy Steel Round Tubing 1" dia. x 0.120" Wall | | | | 100 | 1/17/2018 | 100 | | S033394 | Stock | 1/18/2018 | \$ 2.21 / ft | |
| | | 2 | | | MT-A513-T-0.875W0.128 | A513 Seamless Alloy Steel Round Tubing 0.875" dia. x 0.120" Wall | | | | 60 | | 60 | | S033395 | Stock | 1/18/2018 | \$ 2.06 / ft | |
| | | 3 | | | M1018R1.250 | 1018 Round Bar 1.250 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 | | | | 20 | | 20 | | S033396 | Stock | 1/18/2018 | \$ 4.17 / ft | |
| | | 4 | | | M304R0.750 | 304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft | | | | 96 | | 96 | | S033397 | Stock | 1/18/2018 | \$ 4.30 / ft | |
| | | 5 | | | MT-4140QT-R0.750 | AISI 4140 Quenched & Tempered Steel Round Bar 0.750" Dia. | | | | 20 | | 20 | | S033398 | Stock | 1/18/2018 | \$ 2.49 / ft | |
| | | 6 | | | M6061T6B0.250X01.000 | 6061-T6 Bar .250 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | | S033399 | Stock | 1/18/2018 | \$ 0.79 / ft | |
| | | 7 | | | M6061T6B0.250X5.000 | 6061T6 Bar 0.250 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | | S033400 | Stock | 1/18/2018 | \$ 3.76 / ft | |
| | | 8 | | | M6061T6B0.250X6.250 | 6061T6 Bar 0.250 X 6.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 24 | | 24 | | S033401 | Stock | 1/18/2018 | \$ 9.62 / ft | |
| | | 9 | | | M6061T6B0.375X02.000 | 6061-T6 Bar .375 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 40 | | 40 | | S033402 | Stock | 1/18/2018 | \$ 2.30 / ft | |
| | | 10 | | | M6061T6B0.500X02.500 | 6061-T6 Bar .500 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033403 | Stock | 1/18/2018 | \$ 3.76 / ft | |

waiting for
Next#
Plate Bar

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|--------|----------|--------------|--------|-------|--|---|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|--------|--------------|---------------|-------|
| 038785 | | 11 | | | M6061T6B0.500X06.000 | 6061-T6 Bar .500 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 40 | | 40 | | S033404 | Stock | 1/18/2018 | \$ 9.17 / ft | |
| | | 12 | | | M6061T6B0.500X1.500 | 6061-T6 Bar 0.500 X 1.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033405 | Stock | 1/18/2018 | \$ 2.30 / ft | |
| | | 13 | | | M6061T6B0.500X12.000 | 6061-T6 Bar .500 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 12 | | 12 | | S033406 | Stock | 1/18/2018 | \$ 23.01 / ft | |
| | | 14 | | | M6061T6B1.000X04.000 | 6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 12 | | S033407 | Stock | 1/18/2018 | \$ 12.77 / ft | |
| | | 15 | | | M6061T6B1.000X12.000 | 6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 12 | | S033408 | Stock | 1/18/2018 | \$ 44.59 / ft | |
| | | 16 | | | M6061T6B1.250X01.250 | 6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | | S033409 | Stock | 1/18/2018 | \$ 4.89 / ft | |
| | | 17 | | | M6061T6B2.500X01.500 | 6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 24 | | 24 | | S033410 | Stock | 1/18/2018 | \$ 14.36 / ft | |
| | | 18 | | | M6061T6B0.375X01.000 | 6061-T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 60 | | 60 | | S033411 | Stock | 1/18/2018 | \$ 1.15 / ft | |
| | | | | | <div>? 1.250</div> <div>waiting for Astm</div> | | | | | | | | | | | | | |

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit | Ag Da |
|--------|----------|--------------|--------|-------|----------------------|---|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|--------|--------------|---------------|-------|
| | | 19 | | | M6061T6B0.750X03.000 | 6061-T6 Bar .750 X 3.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 20 | | 20 | ✓ | S033412 | Stock | 1/18/2018 | \$ 8.37 / ft | |
| | | 20 | | | M6061T6B1.500X01.000 | 6061-T6 Bar 1.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | | | 20 | ✓ | S033413 | Stock | 1/18/2018 | \$ 6.78 / ft | |
| | | 21 | | | M6061T6B3.000X01.500 | 6061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | | | | 12 | | 12 | ✓ | S033414 | Stock | 1/18/2018 | \$ 14.02 / ft | |
| Total: | | | | | | | | | | 672 | | 672 | | | | | | |

Plex 1/18/2018 12:50 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038785**

Supplier: ACI001-VC
Acier Ouellette Inc.
935 Boul. Du Havre
Valleyfield
QC
J6S 5L1 Canada
Phone: 800 667 4248
Fax: 450 377 5696

PO No: PO038785

PO Date: 1/15/18

Due Date: 1/17/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
JAN 18 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quotation sou0079984

| Items | | | | | | | | | | |
|-----------|-------------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 1 | MT-A513-T-1.000W0.120 ✓ | | A513 Seamless Alloy Steel Round Tubing 1"dia. x 0.120" Wall | Firmed | 1/17/18 | 100 ft | 0 ft | 100 ft | \$2.2095/ft | \$220.95 |
| 2 | MT-A513-T-0.875W0.120 ✓ | | A513 Seamless Alloy Steel Round Tubing 0.875"dia. x 0.120" Wall | Firmed | 1/17/18 | 60 ft | 0 ft | 60 ft | \$2.0595/ft | \$123.57 |
| 3 | M1018R1.250 ✓ | | 1018 Round Bar 1.250 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$4.168/ft | \$83.36 |
| 4 | M304R0.750 ✓ | | 304 SS Roundbar .750 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft | Firmed | 1/17/18 | 96 ft | 0 ft | 96 ft | \$4.295/ft | \$412.32 |
| 5 | MT-4140QT-R0.750 ✓ | | AISI 4140 Quenched & Tempered Steel Round Bar 0.750" Dia. | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$2.4925/ft | \$49.85 |
| 6 | M6061T6B0.250X01.000 ✓ | | 6061-T6 Bar .250 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$0.7935/ft | \$15.87 |

PURCHASE ORDER

| Items | | | | | | | | | | |
|-----------|----------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 7 | M6061T6B0.250X5.000 | | 6061T6 Bar 0.250 X 5.000 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$3.7625/ft | \$75.25 |
| 8 | M6061T6B0.250X6.250 | | 6061T6 Bar 0.250 X 6.250 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 24 ft | 0 ft | 24 ft | \$9.61625/ft | \$230.79 |
| 9 | M6061T6B0.375X02.000 | | 6061-T6 Bar .375 X 2.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 40 ft | 0 ft | 40 ft | \$2.3035/ft | \$92.14 |
| 10 | M6061T6B0.500X02.500 | | 6061-T6 Bar .500 X 2.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$3.7625/ft | \$75.25 |
| 11 | M6061T6B0.500X06.000 | | 6061-T6 Bar .500 X 6.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 40 ft | 0 ft | 40 ft | \$9.17375/ft | \$366.95 |

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| Items | | | | | | | | | | |
|-----------|----------------------|------------------|--|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 12 | M6061T6B0.500X1.500 | | 6061T6 Bar 0.500 X 1.500 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$2.3035/ft | \$46.07 |
| 13 | M6061T6B0.500X12.000 | | 6061-T6 Bar .500 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$23.005833/ft | \$276.07 |
| 14 | M6061T6B1.000X04.000 | | 6061-T6 Bar 1.00 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$12.765833/ft | \$153.19 |
| 15 | M6061T6B1.000X12.000 | | 6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft 12 | 12 ft | \$44.58666/ft | \$535.04 |
| 16 | M6061T6B1.250X01.250 | | 6061-T6 Bar 1.25 X 1.25 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft 20 | 20 ft | \$4.8855/ft | \$97.71 |

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PURCHASE ORDER

| Items | | | | | | | | | | |
|--------------|----------------------|------------------|---|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 17 | M6061T6B2.500X01.500 | | 6061-T6 Bar 2.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 24 ft | 0 ft | 24 ft | \$14.36125/ft | \$344.67 |
| 18 | M6061T6B0.375X01.000 | | 6061T6 Bar .375 X 1.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 60 ft | 0 ft | 60 ft | \$1.1518333/ft | \$69.11 |
| 19 | M6061T6B0.750X03.000 | | 6061-T6 Bar .750 X 3.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$8.3725/ft | \$167.45 |
| 20 | M6061T6B1.500X01.500 | | 6061-T6 Bar 1.50 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 20 ft | 0 ft | 20 ft | \$6.775/ft | \$135.50 |
| 21 | M6061T6B3.000X01.500 | | 6061-T6 Bar 3.00 X 1.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft | Firmed | 1/17/18 | 12 ft | 0 ft | 12 ft | \$14.020833/ft | \$168.25 |
| Grand Total: | | | | | | | | | \$3,739.36 | |

Order Notes

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Order Notes**Procurement Quality Clauses**

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/16/18 7:50 AM dart.lavoie.chantal



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/11

Revision N 

0

Prices valid until

2018/01/18

Your Order N 

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

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| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|--------|----------|--------|---------|-------|--------|---------|--------|
| TUBE MEC 1.000 OD X .120 RANDOM TME-1000120-V 6505 5 X 20' R/L STOCK | 112.80 | 100.00 | PI_\$CPI | 100.00 | PI | | 5.00 | 44.190 | 220.95 |
| TUBE MEC 0.875 OD X .120 RANDOM TME-0875120-V 6787 3 X 20' R/L STOCK | 58.08 | 60.00 | PI_\$CPI | 60.00 | PI | | 3.00 | 41.190 | 123.57 |
| ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260 1 X 20' R/L STOCK | 83.40 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 83.360 | 83.36 |
| ROUND SS 1 303 RANDOM RSS-1303-V 8519 4 X 12' R/L 2-3 DAYS | 128.16 | 48.00 | PI_\$CLB | 48.00 | UN_\$UN | | 4.00 | 96.745 | 386.98 |
| ROUND SS 3/4 304 RANDOM RSS-34-V 5762 8 X 12' R/L STOCK | 144.19 | 96.00 | PI_\$CLB | 96.00 | PI | | 4.00 | 103.080 | 412.32 |
| ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 20' R/L STOCK | 30.04 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 49.850 | 49.85 |
| FLAT 4140 HT 1/2 X 3 N 1 X 6' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 141.000 | 141.00 |
| FLAT 4140 HT 1/2 X 4 N 1 X 6' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 162.000 | 162.00 |
| FLAT 4140 HT 3/4 X 1 3/4 N 1 X 8' 4-5 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 188.000 | 188.00 |
| FLAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 1 X 20' STOCK | 6.20 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 15.870 | 15.87 |

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2018/01/11
Revision N  0
Prices valid until 2018/01/18
Your Order N 
Processed by Josianne Bourdon
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 2

| Product N  and description | Weight | Qty U/M | Qty U/M | Price | Pcs Nb | Price | Amount |
|---|--------|----------------------------|-------------------|-------|--------|---------|--------|
| FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 1 X 20' STOCK | 29.40 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 75.250 | 75.25 |
| ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 3 X 6 1/4" X 96" STOCK SHEAR CUT SHEAR 2 | 58.56 | 16.00 PI2_\$CLB 1.00 UN | 16.00 PI2 1.00 | | 3.00 | 76.930 | 230.79 |
| FLAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617 2 X 20' STOCK | 36.00 | 40.00 PI_\$CLB | 40.00 PI | | 2.00 | 46.070 | 92.14 |
| FLAT ALU 1/2 X 1 1/4 6061-T6 RANDOM FAL-12114-V 2469 1 X 20' 2-3 DAYS | 15.70 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 40.180 | 40.18 |
| FLAT ALU 1/2 X 2 1/2 6061-T6 RANDOM FAL-12212-V 2479 1 X 20' STOCK | 29.38 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 75.200 | 75.20 |
| FLAT ALU 1/2 X 5 6061-T6 RANDOM FAL-125-V 2492 3 X 12' 3-4 DAYS | 105.88 | 36.00 PI_\$CLB | 36.00 PI | | 3.00 | 116.446 | 349.34 |
| FLAT ALU 1/2 X 6 6061-T6 RANDOM FAL-126-V 2494 2 X 20' STOCK | 141.16 | 40.00 PI_\$CLB | 40.00 PI | | 2.00 | 183.475 | 366.95 |
| FLAT ALU 1/2 X 1 1/2 6061-T6 RANDOM FAL-12112-V 2466 1 X 20' STOCK | 18.00 | 20.00 PI_\$CLB | 20.00 PI | | 1.00 | 46.070 | 46.07 |
| FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447 1 X 12' STOCK | 84.70 | 12.00 PI_\$CLB | 12.00 PI | | 1.00 | 276.070 | 276.07 |

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/11

Revision N 

0

Prices valid until

2018/01/18

Your Order N 

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

3

| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|-------|----------|-------|-----|-------|--------|---------|--------|
| FLAT AL 2 X 6 6061T6 N 1 X 6' 3-4 days | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 316.000 | 316.00 |
| FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 1 X 12' STOCK | 57.60 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 153.190 | 153.19 |
| FLAT ALU 1 X 12 6061-T6 RANDOM FAL-112-V 2450 1 X 12' STOCK | 169.34 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 535.040 | 535.04 |
| SQUARE ALU 1 1/4 6061-T6 RANDOM CAL-114-V 1775 1 X 20' STOCK | 36.74 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 97.710 | 97.71 |
| FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439 2 X 12' STOCK | 105.74 | 24.00 | PI_\$CLB | 24.00 | PI | | 2.00 | 172.335 | 344.67 |
| FLAT ALU 3/8 X 1 6061-T6 RANDOM FAL-381-V 2613 6 X 20' STOCK | 27.00 | 60.00 | PI_\$CLB | 60.00 | PI | | 3.00 | 23.036 | 69.11 |
| FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594 1 X 20' STOCK | 53.00 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 167.450 | 167.45 |
| FLAT ALU 1/8 X 3/4 6063-T5 RANDOM FAL-1834-V 2552 1 X 20' STOCK | 2.26 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 6.690 | 6.69 |
| SQUARE ALU 1 1/2 6061-T6 RANDOM CAL-112-V 1773 1 X 20' STOCK | 52.94 | 20.00 | PI_\$CLB | 20.00 | PI | | 1.00 | 135.500 | 135.50 |
| FLAT ALU 1 1/4 X 2 6061-T6 RANDOM FAL-1142-V 2456 2 X 12' 3-4 DAYS | 70.56 | 24.00 | PI_\$CLB | 24.00 | PI | | 2.00 | 121.345 | 242.69 |

Date :

Next Page...



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 M : 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 M : 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0079984

Billed to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N 

CLI0001056

Date

2018/01/11

Revision N 

0

Prices valid until

2018/01/18

Your Order N 

Processed by

Josianne Bourdon

Salesman

JOSIANNE

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

Page

4

| Product N  and description | Weight | Qty | U/M | Qty | U/M | Price | Pcs Nb | Price | Amount |
|---|--------|-------|----------|-------|-----|-------|--------|---------|--------|
| FLAT ALU 2 X 2 1/2 6061T6 N 1 X 12' 2-3 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 387.000 | 387.00 |
| FLAT ALU 2 X 5 6061T6 N 1 X 12' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 495.000 | 495.00 |
| FLAT ALU 2 X 8 6061T6 N 1 X 4' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 285.000 | 285.00 |
| FLAT ALU 3 X 6 6061T6 N 1 X 6' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 465.000 | 465.00 |
| FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 12' STOCK | 63.50 | 12.00 | PI_\$CLB | 12.00 | PI | | 1.00 | 168.250 | 168.25 |
| CARRE AL. 4 1/2" 6061T6 N 1 X 6' 2-3 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 782.000 | 782.00 |
| PLAT ALU 1 1/4 X 4 1/2 6061T6 N 1 X 12' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 275.000 | 275.00 |
| PLAT ALU 2 1/2 X 4 1/2 6061T6 N 1 X 6' 3-4 DAYS | 0.00 | 1.00 | UN | 1.00 | UN | | 1.00 | 295.000 | 295.00 |
| SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE | | | \$ | | | | | | 3.95 |

Total Weight (Lbs)

1 720.33

Important

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approved and Accepted by :

Date :

Sub-total

8 550.14

TVH-13 - 1111.52

Total (\$CAD)

9 661.66



Order - Sales

CO00069821

Copy

ACIER OUELLETTE INC.
935, Bout. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

2018/01/15

2018/01/16

038785

Josianne Bourdon

Salesman

Carrier

Credit Terme

OUELLETTE VALLEYFIELD

Net 30 Days

1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page

| Product Description | Weight | Qty | U/M | PCS N° | | Internal Use Only | | | |
|---|--------|--------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 1 TUBE MEC 1.000 OD X .120 RANDOM TME-1000120-V 6505 <i>5 X 20' R/L HEAT: 037954</i> | 112.80 | 100.00 | PL_\$CPI | 5.00 | | | | | |
| 2 TUBE MEC 0.875 OD X .120 RANDOM TME-0875120-V 6787 <i>3 X 20' R/L HEAT: 0651089</i> | 58.00 | 60.00 | PL_\$CPI | 3.00 | | | | | |
| 3 ROUND CR 1 1/4 1018 RANDOM RCR-114-V 5260 <i>1 X 20' R/L HEAT: 41892 AG</i> | 83.40 | 20.00 | PL_\$CLB | 1.00 | | | | | |
| 4 ROUND SS 3/4 304 RANDOM RSS-34-V 5762 <i>8 X 12' R/L HEAT: 249P</i> | 144.19 | 96.00 | PL_\$CLB | 4.00 | | | | | |

NIR : R-109516-6

Next Page..



Order - Sales

Copy

CO0006982

ACIER OUELLETTE INC.
935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 MU: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 MU: 514-336-4246 Ext.: 866-456-4242

Customer N°

2018/01/15

2018/01/16

038785

Josianne Bourdon

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

OUELLETTE VALLEYFIELD

Net 30 Days

Billed to

DART AEROSPACE LTD

Shipped to

, Ontario,

Alt : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Page 2

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | |
|---|--------|-------|-----------|--------|-----|-------------------|----|-------|
| | | | | CMD | EXP | B/O | IN | I S C |
| 5 ROUND 4140 HEAT TREAT 3/4 RANDOM R4140-34H-V 4949 1 X 20' R/L HEAT M52573 6 FLAT ALU 1/4 X 1 6061-T6 RANDOM FAL-141-V 2512 1 X 20' HEAT SVA-160988 7 FLAT ALU 1/4 X 5 6061-T6 RANDOM FAL-145-V 2527 1 X 20' HEAT 67915 8 ALU PLATE 1/4 6061-T651 RANDOM PAL-146061-V 4245 3 X 6 1/4" X 96" HEAT: A VENIR | 30.04 | 20.00 | PI \$CLB | 1.00 | | | | |
| | 6.20 | 20.00 | PI \$CLB | 1.00 | | | | |
| | 29.40 | 20.00 | PI \$CLB | 1.00 | | | | |
| | 58.56 | 16.00 | PI2 \$CLB | 3.00 | | | | |

NIR : R-109516-6

Next Page



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy C000069821

Customer N° CL10001056
Date 2018/01/15
Delivery date 2018/01/16
Your order N° 038785
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Shipped to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|---|--------|-------|-----------|--------|-----|-------------------|----|---|---------|
| | | | | CMD | EXP | B/O | IN | I | S C OUT |
| SHEAR CUT SHEAR 9 FIAT ALU 3/8 X 2 6061-T6 RANDOM FAL-382-V 2617 | 36.00 | 40.00 | PI_ \$CLB | 2.00 | | | | | |
| 2 X 20' HEAT: SXF171944 | | | | | | | | | |
| 10 FIAT ALU 1/2 X 2 172 6061-T6 RANDOM FAL-12212-V 2479 | 29.38 | 20.00 | PI_ \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 33083 | | | | | | | | | |
| 11 FIAT ALU 1/2 X 6 6061-T6 RANDOM FAL-126-V 2494 | 141.16 | 40.00 | PI_ \$CLB | 2.00 | | | | | |
| 2 X 20' HEAT: 36629 | | | | | | | | | |
| 12 FIAT ALU 1/2 X 1 1/2 6061-T6 RANDOM FAL-12112-V 2466 | 18.00 | 20.00 | PI_ \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 68295 | | | | | | | | | |

NIR : R-109516-6

Next Page..



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Customer N° CL10001056
Date 2018/01/15
Delivery date 2018/01/16
Your order N° 038785
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 4

Copy C000069821

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|---|--------|-------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 13 FLAT ALU 1/2 X 12 6061-T6 RANDOM FAL-1212-V 7447 1 X 12' HEAT: 200108157 | 84.70 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 14 FLAT ALU 1 X 4 6061-T6 RANDOM FAL-14-V 2532 1 X 12' HEAT: 387163 | 57.60 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 15 FLAT ALU 1 X 12 6061-T6 RANDOM FAL-112-V 2450 1 X 12' HEAT: 201704837 | 169.34 | 12.00 | PL \$CLB | 1.00 | | | | | |
| 16 SQUARE ALU 1 1/4 6061-T6 RANDOM CAL-114-V 1475 1 X 20' HEAT: 160973418 | 36.74 | 20.00 | PL \$CLB | 1.00 | | | | | |

NIR : R-109515-6

Next Page..



ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy

CO00069825

Customer N° CLI0001056

Date 2018/01/15

Delivery date 2018/01/16

Your order N° 038785

Processed by Josianne Bourdon

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 5

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS NB | | Internal Use Only | | | |
|---|--------|-------|----------|--------|-----|-------------------|----|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 17 FLAT ALU 1 1/2 X 2 1/2 6061-T6 RANDOM FAL-112212-V 2439 | 105.74 | 24.00 | PI \$CLB | 2.00 | | | | | |
| 2 X 12' HEAT: SDX170240 <i>al</i> | | | | | | | | | |
| 18 FLAT ALU 3/8 X 1 6061-T6 RANDOM FAL-381-V 2613 | 27.00 | 60.00 | PI \$CLB | 3.00 | | | | | |
| 3 X 20' HEAT: 384191 | | | | | | | | | |
| 19 FLAT ALU 3/4 X 3 6061-T6 RANDOM FAL-343-V 2594 | 53.00 | 20.00 | PI \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 36740 <i>al</i> | | | | | | | | | |
| 20 SQUARE ALU 1 1/2 6061-T6 RANDOM CAL-112-V 1773 | 52.94 | 20.00 | PI \$CLB | 1.00 | | | | | |
| 1 X 20' HEAT: 68055 | | | | | | | | | |

NIR : R-109516-6

Next Page..



ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5596 Mtl: 514-336-4246 Ext.: 866-456-4242

Order - Sales

Copy C00006982

Customer N° CL10001056
Date 2018/01/15
Delivery date 2018/01/16
Your order N° 038785
Processed by Josianne Bourdon
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 6

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,
Alt : CHANTAL LAVOIE Tél.: 613-632-5200
Delivery Route 5

| Product Description | Weight | Qty | U/M | PCS N° | | | Internal Use Only | | |
|--|--------|-------|----------|--------|-----|-----|-------------------|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S C |
| 21 FLAT ALU 1 1/2 X 3 6061-T6 RANDOM FAL-1123-V 2445 1 X 12' HEAT 384719 SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE | 63.50 | 12.00 | PL \$CLB | 1.00 | | | | | |
| | | | \$ | 0.00 | | | | | |

Total Weight (LBS): 1 397.77 **NIR : R-109516-6**

Conditions :
All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc" is the same as offered and honored by the manufacturer and the buyer accepts to pay administrative charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to stop for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

| | | | | | | | |
|---------------|---------------|----------------|------|----------------------|---|---|--|
| Prepared By : | Verified By : | Delivered By : | Time | Customer's Signature | | | |
| | | | | Y | M | D | |

Total (\$CAD) 4 229.88
Deposit 0.00
Balance 4 229.88

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA
TUBE PRODUCTS OF INDIA - MODULE - 1
 POST BOX NO.4 & 18, M.T.H. ROAD, AVADI, CHENNAI - 600054



Description : PRECISION STEEL TUBES - CDW
 Specification : ASTM A513/A 513M-15 T5 C1020
 Condition : SRA
 Bundle No's : 017000842

TC No : PAE/SC1720318
 Date : 10-FEB-17

Invoice No : 4421810999
 Invoice Date : 31-JAN-17
 Job /Batch No : RBCL1701331

Cust Part No :
 Bundle Tagging : CUSTOMER SIZE /CONDITION /QUANTITY /GROSS WEIGHT /TAG MARKING / WO.NO. / SPEC & GRADE /DESTINATION / BUNDLE NO /COUNTRY OF ORIGIN.

Tube Marking : P.O.NO. /TPI-ED /SIZE /SPEC /CONDITION /TAG MARKING/ HEAT NO. /MADE IN INDIA.

P. Uom : Inches
 Size : 1.000" OD X 0.760" ID X 0.120" WT X 20'- 24" R/L

Quantity In : 1857.513 Ft

LADLE ANALYSIS :

| Process | Heat No. | %C | %Mn | %P | %S | %Si | %Al |
|---------|----------|-----|-----|------|------|------|------|
| Min | | .18 | .3 | | | | |
| Max | | .23 | .6 | .035 | .035 | | |
| Obs | D37954 | .19 | .49 | .008 | .005 | .023 | .054 |

Full Section Longitudinal Tensile Test at Room Temp

| Test | Heat No. | Y.S | T.S | Elng. |
|------|----------|-------|--------|-------|
| Min | | 379 | 448 | 10 |
| Max | | | | |
| | | MPA | MPA | % |
| OBS | D37954 | 480.9 | 565.76 | 22 |

| Rockwell Hardness | Roughness |
|-------------------|-----------|
| OD | ID |
| 75 | |
| HRB | |
| 24 | |

| Dimensions in : Inches | | | | |
|------------------------|-------|------|----|---------|
| Spec | OD | ID | WT | Len |
| Min | 1 | .755 | | 240 |
| Max | 1.005 | .76 | | 288 |
| OBS-Min | 1.001 | .757 | 0 | 267.283 |
| OBS-Max | 1.003 | .759 | 0 | 284.016 |

Technological Tests :

| Test | Spec | Result |
|----------------|------|--------|
| Crushing | | - |
| Flaring | | - |
| Flattening | | - |
| Flanging | | - |
| Rev. Flang. | | - |
| Elng. Gang Len | | |

Non-Destructive Tests :

| Test | Spec | Result |
|-----------------|------------------|----------------|
| Straightness | 0.76/1000 MM MAX | 0.30 / 1000 |
| Eddy Current | 100 | 100% TESTED OK |
| Visual | | DEFECT FREE |
| Ultrasonic Test | | - |

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : *A. J. Jammal*

Quality Shift Incharge Signature:

for Tube Investments of India
 Unit: Tube Products of India Module - 1

S. Es
 Mathavan.M
 Mgr-Quality-IBP-TP

123174 Item-CDW 1.000 .120 .760 Heat #-D37954

Turn 1120

6787

TPI Work Test Certificate



TUBE INVESTMENTS OF INDIA
TUBE PRODUCTS OF INDIA - MODULE - I
POST BOX NO.4 & 18, M T H ROAD, AVADI, CHENNAI - 600054



murugappa

..... : MC4811/24-JUL-15
: /
Description : PRECISION STEEL TUBES - CDW
Specification : ASTM A513M-12 TS C1020
Condition : SRA
Bundle No's : 015010913, 015010910

TC No : PAZ/MC15M0476
Date : 25-AUG-15

Invoice No : 4421809206
Invoice Date : 22-AUG-15
Job/Batch No : RBCL1508149

Cust Part No :
Bundle Tagging : CUSTOMER SIZE/CONDITION/QUANTITY/GROSS WEIGHT/TAG MARKING/WO.NO./SPEC & GRADE/DESTINATION/BUNDLE NO/COUNTRY OF ORIGIN.

Tube Marking : P.O.NO./TPI-ED/SIZE/SPEC/CONDITION/TAG MARKING/HEAT NO./MADE IN INDIA.
P. Uom : Inch
Size : 0.875" OD X 0.635" ID X 0.120" WT X 20'-24" R/L.

Quantity In : 2592.748 Ft

| LADLE ANALYSIS : | | | | | | | |
|------------------|----------|-----|-----|------|------|-----|-----|
| Process | Heat No. | %C | %Mn | %P | %S | %Si | %Al |
| Min | | .18 | .3 | | | | |
| Max | | .23 | .6 | .035 | .055 | | |
| Obs | D651089 | .2 | .53 | .015 | .005 | .12 | .01 |

| Full Section Longitudinal Tensile Test at Room Temp | | | | |
|---|----------|--------|-------|--------|
| Test | Heat No. | Y.S | T.S | Elong. |
| Min | | 374 | 444 | 10 |
| Max | | | | |
| | | MPA | MPA | % |
| OBS | D651089 | 512.02 | 625.1 | 20 |

| Rock Well Hardness |
|--------------------|
| 75 HRR |
| |
| 70 HRR |

| Dimensions in : inches | | | | |
|------------------------|------|------|----|---------|
| Spec | OD | ID | WT | Length |
| Min | .875 | .63 | | 240 |
| Max | .88 | .635 | | 288 |
| OBS-Min | .876 | .634 | 0 | 240 |
| OBS-Max | .878 | .635 | 0 | 287.992 |

| Technological Tests : | | |
|-----------------------|------|--------|
| Test | Spec | Result |
| Crushing | | - |
| Flaring | | - |
| Flattening | | - |
| Flanging | | - |
| Rev. Flang. | | - |
| Elong.Gaug.Len | | |

| Non-Destructive Tests : | | |
|-------------------------|------------------|----------------|
| Test | Spec | Result |
| Roughness OD | | |
| Roughness ID | | |
| Straightness | 0.76/1000 MM MAX | 0.35/1000 MM |
| Eddy Current | 100 | 100% TESTED OK |
| Vibro | | DEFECT FREE |
| Ultrasonic Test | | |

This is to certify that the goods are supplied as per the purchase order and specification Requirements

Prepared by : K. GANDYARJANI

Quality Shift Incharge Signature:

for Tube Investments of India
Unit: Tube Products of India Module - I

S. C. P. S.
Mathavan, M
Mgr-Quality-IUP-TP

Q.C. Reviewed
Shiv 27/15

Turn 78120

-123174 Item-CDW .075 .120 .635 Heat # -D651089

5292
5260

R.C.R-T-V
R.C.R-114-V

49553 ✓
49554 CA 47950



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
Tfno.: 946480211
Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A108

| IDENTIFICACION | DESCRIPTORES | ESPESES | VALORES | VALORES | VALORES |
|----------------|------------------------------------|---------|---------|---------|---------|
| PAR-48569 | 1018 RED. ESTIRADO 25,40 (1") | 978 | -0,051 | 137149 | 25,40 |
| MOP-48737 | 1018 RED. ESTIRADO 25,40 (1") | 998 | -0,051 | 141109 | 25,40 |
| OU-47949 | 1018 RED. ESTIRADO 7,94 (5/16") | 1.052 | -0,051 | 141112 | 7,94 |
| OU-47949 | 1018 RED. ESTIRADO 17,46 (11/16") | 1.010 | -0,051 | 141114 | 17,46 |
| CA-47950 | 1018 RED. ESTIRADO 25,40 (1") | 998 | -0,051 | 141110 | 25,40 |
| CA-47950 | 1018 RED. ESTIRADO 31,75 (1 1/4") | 994 | -0,051 | 140119 | 31,75 |
| VI-48475 | 1018 RED. ESTIRADO 6,35 (1/4") | 1.122 | -0,051 | 141129 | 6,35 |
| PAJ-48144 | 1018 RED. ESTIRADO 25,40 (1") | 1.996 | -0,051 | 141279 | 25,40 |
| PAJ-48144 | 1018 RED. ESTIRADO 28,58 (1 1/8") | 1.012 | -0,051 | 141280 | 28,58 |
| PAR-48143 | 1018 RED. ESTIRADO 19,05 (3/4") | 1.468 | -0,051 | 141267 | 19,05 |
| PAR-48143 | 1018 RED. ESTIRADO 25,40 (1") | 2.992 | -0,051 | 141269 | 25,40 |
| PAR-48143 | 1018 RED. ESTIRADO 30,16 (1 3/16") | 836 | -0,051 | 916831 | 30,16 |
| MOP-48145 | 1018 RED. ESTIRADO 25,40 (1") | 1.996 | -0,051 | 141287 | 25,40 |
| MIN-48543 | 1018 RED. ESTIRADO 25,40 (1") | 3.994 | -0,051 | 141414 | 25,40 |

Composición química de la colada / Chemical Analysis of Heat

| MECIDA | OF | COLADA | % | % | % | % | % | % | % | % | % | % | % |
|-------------|------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Measurement | | Cast Nr. | C | Cr | Cu | Mn | Mo | N | NI | P | S | Si | |
| 25,40 | 0,00 | 137149 | 40655 G | 0,170 | 0,106 | 0,231 | 0,610 | 0,024 | 0,000 | 0,111 | 0,011 | 0,016 | 0,143 |
| 25,40 | 0,00 | 141109 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 7,94 | 0,00 | 141112 | 42134 GM | 0,170 | 0,000 | 0,290 | 0,710 | 0,000 | 0,007 | 0,000 | 0,020 | 0,008 | 0,160 |
| 17,46 | 0,00 | 141114 | 41994 AA | 0,157 | 0,000 | 0,000 | 0,600 | 0,000 | 0,000 | 0,000 | 0,013 | 0,025 | 0,163 |
| 25,40 | 0,00 | 141110 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 31,75 | 0,00 | 140119 | 41892 AG | 0,167 | 0,000 | 0,169 | 0,800 | 0,000 | 0,006 | 0,000 | 0,009 | 0,021 | 0,198 |
| 6,35 | 0,00 | 141129 | 41975 GM | 0,160 | 0,000 | 0,300 | 0,710 | 0,000 | 0,008 | 0,000 | 0,022 | 0,012 | 0,180 |
| 25,40 | 0,00 | 141279 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 28,58 | 0,00 | 141280 | 42186 AG | 0,171 | 0,000 | 0,000 | 0,600 | 0,000 | 0,004 | 0,000 | 0,009 | 0,023 | 0,194 |
| 19,05 | 0,00 | 141267 | 41645 G | 0,160 | 0,000 | 0,000 | 0,640 | 0,000 | 0,000 | 0,000 | 0,013 | 0,019 | 0,133 |
| 25,40 | 0,00 | 141269 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 30,16 | 0,00 | 916831 | 41411 AG | 0,165 | 0,000 | 0,000 | 0,758 | 0,000 | 0,000 | 0,000 | 0,016 | 0,021 | 0,220 |
| 25,40 | 0,00 | 141287 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |
| 25,40 | 0,00 | 141414 | 42055 G | 0,160 | 0,083 | 0,271 | 0,650 | 0,018 | 0,000 | 0,099 | 0,011 | 0,010 | 0,175 |

Características mecánicas / Mechanical properties

[Handwritten signature]



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
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Fax: 946480128
Email: calpradera@calibradospradera.es
www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a / Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

| MEDIDA Measurement | OF | COLADA Cast Nr. | Resistencia Tens. strength N/mm ² | Límite Elástico Yield point 0.2% N/mm ² | Alargamiento Elongation Lo=50 mm. | Dureza HB Hardness HB | Estiración % |
|-----------------------|--------|--------------------|--|--|---|-----------------------------|--------------|
| 25,40 | 137149 | 40655 G | 586,71 | 565,37 | 21,86 | 176,00 | 57,70 |
| 25,40 | 141109 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 7,94 | 141112 | 42134 GM | 706,60 | 658,20 | 10,30 | 216,00 | 61,76 |
| 17,46 | 141114 | 41994 AA | 560,10 | 538,07 | 19,94 | 180,00 | 60,88 |
| 25,40 | 141110 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 31,75 | 140119 | 41892 AG | 571,60 | 542,70 | 34,68 | 180,00 | 58,35 |
| 6,35 | 141129 | 41975 GM | 670,93 | 637,52 | 8,10 | 190,00 | 62,71 |
| 25,40 | 141279 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 28,58 | 141280 | 42186 AG | 541,06 | 518,47 | 14,54 | 156,00 | 56,31 |
| 19,05 | 141267 | 41645 G | 632,89 | 593,23 | 19,38 | 200,00 | 55,28 |
| 25,40 | 141269 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 30,16 | 916831 | 41411 AG | 551,06 | 525,36 | 21,06 | 165,00 | 59,43 |
| 25,40 | 141287 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |
| 25,40 | 141414 | 42055 G | 623,30 | 596,92 | 28,40 | 200,00 | 57,39 |

Calidad Superficial

| DESCRIPCIÓN Description | OF | Clase EN 10277-1 |
|------------------------------------|--------|---------------------|
| 1018 RED. ESTIRADO 25,40 (1") | 137149 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141109 | 2 |
| 1018 RED. ESTIRADO 7,94 (5/16") | 141112 | 2 |
| 1018 RED. ESTIRADO 17,46 (1 1/16") | 141114 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141110 | 2 |
| 1018 RED. ESTIRADO 31,75 (1 1/4") | 140119 | 2 |
| 1018 RED. ESTIRADO 6,35 (1/4") | 141129 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141279 | 2 |
| 1018 RED. ESTIRADO 28,58 (1 1/8") | 141280 | 2 |
| 1018 RED. ESTIRADO 19,05 (3/4") | 141267 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141269 | 2 |
| 1018 RED. ESTIRADO 30,16 (1 3/16") | 916831 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141287 | 2 |
| 1018 RED. ESTIRADO 25,40 (1") | 141414 | 2 |

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR



ARANA Y LUPARDO, 2
48490 UGAO-MIRAVALLS/VIZCAYA (SPAIN)
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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 49784

ALBARAN 49784
Delivery Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE
CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm :

Bright steel products. Technical delivery conditions.

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido.

QUALITY DEPARTMENT: Certify that the product fulfills the order specifications.

Fecha/Date: 23/11/2017

Firmado: Susana Fernández
Directora de Calidad



Sistema de
Gestión
ISO 9001:2008
www.tuvrheinland.es
© TÜV Rheinland

Certificate: 276094 3

Customer: 007080 003

Date: 3/22/2017 Page: 1

Steel: 304/304L

Finish: CD

Your Order: MW5571

NAS Order: IM 0243769 02

Corrosion: ASTM A262-10 Prac A/E OR

PRODUCT DESCRIPTION

Round Bar, Annealed, Cold Draw
DIN 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A276/15, ASTM A479/15, ASTM A192/13 CHRM ONLY,
AISI 304/13, AISI 304/10 CHRM ONLY
AMS 5639H, AMS 5647J, AMS Q36-763D, Q36-763F, ASTM F899/11
SOLUTIONS ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 CR B8
ASTM A193/10A-AISI 304/10 CL 1 CR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAF 232.225-7009 IN DIRECTIVE
2011/65/EU.ROHS. NAF+100+CC. NO WELD REPAIR, NITATED AND NVO
IN USA FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

| Product Id | Std # Diameter | Size | Weight | Length | Mark | Pieces | Commodity Code |
|------------|----------------|------|--------|--------|------|--------|----------------|
| BI4400 3 | .7500 | | 1,214 | 144.00 | 2 | 1 | |

CHEMICAL ANALYSIS CM(Country of Mkt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17023, Certificated L2323
Chemical Analysis per ASTM A751/14a

| Element | CM | C % | CO % | CR % | CU % | MN % | MO % | N % | NI % | P % |
|---------|----|-------|-------|---------|-------|--------|-------|-------|--------|-------|
| 2492 | US | .0210 | .1735 | 19.1635 | .4445 | 1.3815 | .3430 | .0696 | 8.5225 | .0290 |
| | | S % | SI % | | | | | | | |
| | | .0250 | .2595 | | | | | | | |

MECHANICAL PROPERTIES

| Product Id | 1 d | 0.1 | MS | 2YS | YSI | UTS | ROI | RA | % | Elong | % 4D |
|------------|-----|-------|-------|--------|-------|-------|-----|----|---|-------|------|
| BI4400 3 | RL | 201.0 | 71.96 | 101.19 | 68.06 | 66.91 | | | | | |

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

MARMON / KEYSTONE CANADA INC. MK#-Q23627 Item-SBR .750 CD 304L Heat #=249P

Technical



GERDAU SPECIAL STEEL NORTH AMERICA
1191 HERRILL ROAD
JACKSON, MICHIGAN 49201

CERTIFIED MATERIAL TEST REPORT

| | | | | |
|--------|-----------------|--------------|------------|----------|
| 142324 | 1012462/4140HFD | MS2573 | 283416 101 | 12/05/13 |
| | | DANIELI CAST | | |

ORDERED BY
DAN MCDONALDSON
EATON STEEL CORPORATION
10221 CAPITAL
OAK PARK, MI 48237

EATON STEEL CORPORATION
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL
FELHAM, AL 35124

| | | | |
|---|--------|-----|--------|
| 4140 | 0 3/4" | RND | 20' 2" |
| ITEM 1012462 REV 1 DTD 03/05/13, A20/A20M-12, A322-07 | | | |

CHEMICAL ANALYSIS

| C | Mn | P | S | Si | Ni | Cr | Mo | Cu | Sn | Al |
|-------|-------|-------|-------|------|------|------|------|------|-------|-------|
| 0.40 | 0.85 | 0.010 | 0.024 | 0.25 | 0.12 | 0.96 | 0.18 | 0.17 | 0.008 | 0.030 |
| V | Mo | | | | | | | | | |
| 0.002 | 0.002 | | | | | | | | | |

GRAIN SIZE SPECIFICATION ASTM E112 FINE GRAIN 5-8

HARDENABILITY SPECIFICATION ASTM A255/A304

| THEORETICAL | J1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 56 | 56 | 56 | 56 | 56 | 56 | 56 | 54 | 53 | 52 | 50 | 48 | 46 | 44 | 43 | 42 | 40 | 38 | 36 | | | | | | | |

DI CALCULATION SPECIFICATION CAT 180024

5.07

REDUCTION RATIO SPECIFICATION ITEM 1012462

RATIO- 01.5 TO 1.0

PAGE 1

We certify that these data are correct and in compliance with specified requirements.

Gordon Moore
3000 East Front Street
Farmington, MI 48161

Wendy J. Craig Wendy J. Craig

CONTINUED ON PAGE 2

GERDAU

GERDAU SPECIAL STEEL NORTH AMERICA
5401 NORRILL ROAD
JACKSON, MISSISSIPPI 39201

CERTIFIED MATERIAL TEST REPORT

| | | | | |
|--------|-----------------|--------|------------|----------|
| 142324 | 1012462/4140RFD | M12571 | 283416 101 | 11/03/11 |
|--------|-----------------|--------|------------|----------|

Daniel Cast

DAN MCMAURTON
EATON STEEL CORPORATION

10121 CAPITAL

OAK PARK, MI 48217

EATON STEEL CORPORATION &
VULCAN HEAT TREATING
10 CROSSCREEK TRAIL

PELHAM, AL 35124

| | | |
|------|------|-----|
| 4240 | 3/4" | 20" |
|------|------|-----|

ITEM 1012462 REV 1 DTD 03/05/12, A20/A70M-12, A122-07

RESIDUAL MAX SPECIFICATION ITEM 1012462

P-S = 0.0340

RESIDUAL MIN SPECIFICATION ITEM 1012462

P-S = 0.0340

ASTM E381 MACRO ETCH SATISFACTORY: 51/81/01; MEETS SAE J422
S5/S5 RATING (WORST FIELD);

-- MATERIAL 100% MELTED AND MANUFACTURED IN THE U.S.A. BY THE ELECTRIC
ARC FURNACE AND CONTINUOUS CASTING METHOD. THE PRODUCT HAS NOT
BEEN REPAIRED BY WELDING AND THIS MATERIAL HAS NOT BEEN EXPOSED
TO MERCURY OR TO ANY OTHER METAL ALLOY THAT IS LIQUID AT AMBIENT
TEMPERATURES DURING PROCESSING OR WHILE IN OUR POSSESSION.
GERDAU MONITORS ALL INCOMING SCRAP AND ALL HEATS OF STEEL TO ENSURE THAT
PRODUCTS SHIPPED ARE FREE OF RADIOACTIVE MATERIAL.

PAGE 2 OF 2


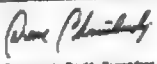
We certify that these data are correct and in compliance with specified requirements.

Wanda Moore
3000 East Front Street
Monroe, MI 48163

Wanda J. Craig
Wanda J. Craig

[illegible]

Qerf 377069

| | | | |
|--|---------|-----------------------------------|----------------|
|  Vulcan Threaded Products 18 Cross Creek Trail Pelham, AL 35124 Tel: (205) 938-9460 Fax: (205) 938-9166 | | JOB MATERIAL CERTIFICATION | |
| Job No: 344313 | | Certified Date: 12/7/13 | |
| Container: 57521276 57525268 | | | |
| Test Results | | | |
| Test No: 20756 Test: Overall & Tensile Properties (ASTM) | | | |
| Specification | Results | Yield (ksi) | Ultimate (ksi) |
| Overall & Tensile Properties Results | 145,000 | 135,700 | 17.8 |
| Test No: 20757 Test: Overall & Tensile Properties (ASTM) | | | |
| Specification | Results | Yield (ksi) | Ultimate (ksi) |
| Overall & Tensile Properties Results | 145,000 | 135,700 | 17.8 |
|  12/7/13 Christopher, David - Supervisor Date | | | |

2 #2512 4AL-141-V

TRA 1

49576



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xuan B1-Conoc Industrial zone, My Xuan town, Tan Thanh district,
Bu Ri-Vung Tau province, Viet Nam
Tel: +84(0)643924954
Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: September 08, 2016

Consignee: SINOMETAL RESOURCES INC.
4455 RUE CONSENS SAINT-LAURENT, QUEBEC, H4S 1X5, CANADA
PO number: 16-P-178
Customer PO: Inventory
Shipping Ref No.: 16-1088
LC No.: DC 11MN614265
Date of issue: August 29, 2016
Item Code: 1040002
Die Number: GVA_D00269
Alloy & Temper: 6061-T6
Production Description: Flat Bar 1"x0.25"x 20' 6061-T6
Length (inch): 240
Bundle number: 16-P-178-090, 16-P-178-106
Heat Number: SXA160988
Date: 08/08/2016
Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------------|
| | | | | | | | | | EACH | TOTAL | |
| 0.705 | 1.006 | 0.164 | 0.295 | 0.079 | 0.171 | 0.009 | 0.016 | 97.458 | <0.05 | <0.10 | 06/08/2016 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % LN 2" | Remarks |
|---------------------|----------------------|--------------------|------------|
| 40.8 | 37.4 | 11.2 | 06/08/2016 |

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

A2527

FAL-145

AC 1233
46974**Test de dureté Rockwell
Rockwell Hardness Test**

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 6111705

bon de commande / Purchase order # : CA-46376

de matrice / Die # : MS 16561

Description : 5" X 1/4" FLATBAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 81181-1

Coulée / Cast # : 67915

Dureté Rockwell E /

Rockwell E hardness : 94 HRE

Min. requis /

Min. required : 88 HRE

Max. permis /

Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen) .

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen) .

Sincèrement vôtre,
Yours truly,

date : 2016-12-07

Gilles Pelletier
Technicien de la qualité
Quality technician

2617



GVA
Global Vietnam
Aluminum Co., Ltd.

FAL-382-V

TRA-1735

49546

GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN-TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: November 17, 2017

Applicant/Consignee: SINOPEC TRADING INC.

4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17529

Shipping Ref No.: 17-2204

LC No.: DCHMN714466

Date of issue: October 31, 2017

Item Code: 1003600

Dye Number: D00205

Alloy & Temper: 6061-T6

Production Description: FLAT BAR 3750"X2"X 20' 6061-T6 D00205

Length (inch): 240

Bundle number: P-17529-045

Heat Number: SXF171944

Date: 14/10/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|------------|
| | | | | | | | | | EACH | TOTAL | |
| 0.602 | 0.942 | 0.247 | 0.238 | 0.034 | 0.094 | 0.015 | 0.021 | 97.708 | <0.05 | <0.10 | 12/10/2017 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % 1N 2" | Remarks |
|---------------------|----------------------|--------------------|------------|
| 40.7 | 36.8 | 113 | 12/10/2017 |

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
THỊNH NHÓM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

MILL TEST

| | | | | | | |
|----------------------|--|----------------------|----------------------|------------------|------------------------|--------------|
| SHIP TO | | CERT CODE: | DIE NUMBER | DATE OF SHIPMENT | ORDER NO. | MANIFEST NO. |
| ACIER OUELLETTE | | 1 | S 4651 | JUL14/2016 | 195600 - 3 | 352829 |
| SO DESCRIPTION | | CUSTOMER PO | ALLOY | SALESMAN | MADE IN CANADA | |
| 1/2" X 2.5" FLAT BAR | | 98125 | 6061 | HOUSE ACCOUNTS | | |
| | | CUSTOMER PART NUMBER | TEMPER | | | |
| | | DT04651 | T6 | | | |
| | | | PART DESCRIPTION | | | |
| | | | 1/2" X 2.5" FLAT BAR | | | |
| | | | | | CERTIFICATION | |
| | | | | | MILL TEST ASTM B221-14 | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell E | Conductivity |
|------|-------|------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | JUL07/2016 | 41.00 | 37.50 | 16.50 | 86.1, 86.6, 86.4 | |

David Natale

David Natale
Quality Control Manager

| | | | | | | | | | |
|----------------------|--|----------------------|--|------------------|--|----------------------|--|----------------|--------------|
| SHIP TO | | CERT CODE: | | DIE NUMBER | | DATE OF SHIPMENT | | ORDER NO. | MANIFEST NO. |
| ACIER OUELLETTE | | CUSTOMER PO | | S 4651 | | JUL14/2016 | | 195600 - 3 | 352829 |
| SO DESCRIPTION | | 99125 | | ALLOY 6061 | | SALESMAN | | MADE IN CANADA | |
| 1/2" X 2.5" FLAT BAR | | CUSTOMER PART NUMBER | | TEMPER T6 | | HOUSE ACCOUNTS | | | |
| | | DT04651 | | PART DESCRIPTION | | 1/2" X 2.5" FLAT BAR | | | |

CERTIFICATION
MILL TEST ASTM B221-14

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Al | Ga | V | B | Zr | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|-------|-------|-------|--------|-------|--------|----|--------|--------|----|---|---|----|----|----|----|----|----|-------|
| 33083 | A.11 | 6061 | 0.542 | 0.214 | 0.211 | 0.0008 | 0.863 | 0.0008 | 0 | 0.0111 | 0.0109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

BON DE LIVRAISON

| | |
|-----------------------|-------------------|
| NO DU BON | DATE DE LIVRAISON |
| 120719 | 30/May/17 |
| NR: | |
| R-015478-2 | 450-963-3693 |
| REPRÉSENTANT: | |
| OU-47807 | Guillaume Morin |
| NO COMMANDE EXTRUDED: | |
| JP COMEAU | 105013 |

| | |
|---|-----------------|
| ACIER OUELLETTE 22, BOUL J-F KENNEDY ST-JEROME, QC J7Y 4B6 | |
| NO CLIENT: L-3693-3 | |
| LIVRÉ A | |
| ACIERS TRANSBEC (1997) LTEE 4054, BOUL. LE CORBUSIER #201 LAVAL, QC H7L 5R2 | NO CLIENT: 3693 |
| NO DE PIÈCE | NO PIÈCE CLIENT |
| SA00140 | |
| DESCRIPTION ALLIAGE / TREMPAGE | FINITION |
| BARRE PLATE 6X 1/2 6081/T6 | NATUREL MILL |
| 6086mm | 16 |
| 500 | |

3 MILLTEST + CERT. CONFORMITE

Mill Test (Tensile Properties of Aluminum)

Test Date.: 26/May/17

| Order No. | Alloy | Temper | Yield (ksi) | Ultimate Tensile (ksi) | Total Elongation (%) | Hardness (Rockwell E) | Conductivity % | Report No. |
|---------------|-------|--------|-------------|------------------------|----------------------|-----------------------|----------------|------------|
| 105013-11-1A1 | 6061 | T6 | 38.8 | 42.1 | 19.50 | 93.30 | | 7165 |

Certificate of compliance (Certificat de conformité)

Normes: (ANSI H35.1-1997) & (ASTM B221)

Order No. Hardness (Webster) #1 #2 Cast No. CAST CHEMICAL COMPOSITION:

| Order No. | Hardness (Webster) #1 | Hardness (Webster) #2 | Cast No. | CAST CHEMICAL COMPOSITION: |
|---------------|-----------------------|-----------------------|----------|----------------------------|
| 105013-11-1A1 | 15 | 15 | 36629 | |

| Al | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Bi | Pb | Sn | Sr | Co |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98.01 | 0.56 | 0.21 | 0.20 | 0.06 | 0.87 | 0.06 | 0.01 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VÉRIFICATION DE MATÉRIEL

DATE 30/05/17

VÉRIFIÉ PAR

SIGNATURE

SIGNATURE CLIENT:

DATE:

11

#2466

FAL-12112-V

Trans - 919
49253

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : LES ACIERS TRANSBEC (1997) LTEE.

Adresse / Address : 4054 BOUL. LE CORBUSIER # 201
LAVAL, QC
H7L5R2

commande Sapa / Sapa order # : 7011453

bon de commande / Purchase order # : OU-47404

de matrice / Die # : MS 9442

Description: 1 1/2" x 1/2" FLAT BAR

Alliage & trempage / Alloy & temper : 6061 T6 Longueur / Length : 6097 mm

Contrôle / Control # : 84113-1

Coulée / Cast # : 68295

Dureté Rockwell E /
Rockwell E hardness : 94 HREMin. requis /
Min. required : 88 HREMax. permis /
Max. permitted : 100 HRE

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme ASTM B-221-14 excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : 2017-02-15

Daniel Alfredo Pelletier
Directeur Qualité
Quality Director

FAL-12112-V

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT
<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

| | | | | | |
|---------------------------------|-------------------------|-----------------------------------|---------------------------------|--|----------------------|
| CUSTOMER PO NUMBER: 791453-1 | | CUSTOMER PART NUMBER: 51315984 | | PRODUCT DESCRIPTION: .500 X 12.000 PRECISION WIDE BAR | |
| KAISER ORDER NUMBER: 6031235 | LINE ITEM: 001 | SHIP DATE: 05/19/2017 | KAISER LOT NUMBER: Z00108157 | ALLOY: 6061 | TEMPER: T6511 |
| WEIGHT SHIPPED: 1016.000 LB | QUANTITY: 12.000 PCS | S/N NUMBER: 619175 | DIAM/DAFT/THICKS: | WIDTH: | LENGTH: 12.000 FT |

Actual Physical Properties

| REFERENCE | DASH# | SAMPLE# | UTS (KSI) | YTS (KSI) | ELONGA | HARDNESS | CONDUCT. | BEND |
|-----------|-------|---------|-----------|-----------|--------|----------|----------|------|
| Z00108157 | 0001 | 0001 | 51.8 | 46.3 | 12.3 | RE 95 | N/A | N/A |
| Z00108157 | 0002 | 0001 | 51.6 | 46.7 | 10.8 | RE 95 | N/A | N/A |
| Z00108157 | 0002 | 0002 | 49.7 | 44.5 | 11.0 | RE 93 | N/A | N/A |

Chemical Composition (wt%), Aluminum Remainder

| LIMITS | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Pb | Bi | Zr | Ea | Tot |
|---------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|
| Maximum | 0.80 | 0.70 | 0.40 | 0.15 | 1.20 | 0.35 | 0.25 | 0.15 | NA | NA | NA | 0.05 | 0.15 |
| Minimum | 0.40 | 0.00 | 0.15 | 0.00 | 0.80 | 0.04 | 0.00 | 0.00 | NA | NA | NA | 0.00 | 0.00 |
| 107310 | .77 | .24 | .26 | .12 | .87 | .08 | .17 | .02 | .00 | .00 | .00 | .01 | .03 |

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00287371
Kaiser Order Number: 6031235
Line Item: 001

0532

FAK 14

MILL TEST

| | | | | | |
|--------------------------------|---------------------------------|----------------------------------|---------------------------------|---|------------------------|
| SHIP TO ACIER QUELETTE | CERT CODE: 1 | DIE NUMBER S 4657 | DATE OF SHIPMENT Dec/08/2017 | ORDER NO. 212394 - 2 | MANIFEST NO. 382626 |
| SO DESCRIPTION FLAT 4" X 1" | CUSTOMER PO 105987 | ALLOY 6061 | SALESMAN HOUSE ACCOUNTS | MADE IN CANADA | |
| | CUSTOMER PART NUMBER SO04657 | PART DESCRIPTION FLAT 4" X 1" | | CERTIFICATION MILL TEST ASTM B221-14 | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell F | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Nov/28/2017 | 42.80 | 39.80 | 10.00 | 96.0, 86.8, 87.6 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Al | Y | B | Zr | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|------|------|-----|------|------|------|----|------|------|----|---|---|----|----|----|----|----|----|-------|
| 387163 | A.11 | 6061 | 0.58 | 0.15 | 0.2 | 0.03 | 0.86 | 0.07 | 0 | 0.01 | 0.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

T. Mohabir

Tulsiram Mohabir
Quality Control Manager



Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



| | |
|------------------|------|
| OUR ORDER NUMBER | ITEM |
| 289111 | 11 |

| | | |
|--------------------|----------------------|-----------------------|
| MANIFEST NUMBER | DIE NUMBER | DATE OF SHIPMENT |
| 327862 | PL0741 | 3/30/2017 |
| CUSTOMER PO | ALLOY / TEMPER | SALESPERSON |
| C74189 | 6061-T8511 | D. Schroeder (Canada) |
| Quantity Certified | CUSTOMER PART NUMBER | DESCRIPTION |
| 2,032 lbs 12 pcs | V832861-PL0741 | PL 1.000 x 12.000 |

| |
|-------------------------|
| CERTIFICATION |
| ASTM-B221-14 No Stencil |
| SPECIFICATION |
| AMS-QQA-200/8 Rev-A |

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T8511 also meet the requirements of 6061-T8. This product is RoHS-2, REACH, and DFARS compliant.

| Mechanical Properties | | Test Date | Ultimate Tensile Strength (KSI) | | Yield Strength (KSI) | | Percent Elongation | |
|-----------------------|-----------|-----------|---------------------------------|-------|----------------------|-------|--------------------|-------|
| Tests | Lot No. | | min | max | min | max | min | max |
| 1 | 201704837 | 3/30/17 | 50.40 | 50.40 | 46.50 | 46.50 | 16.60 | 16.60 |

Chemical Composition for Aluminum Alloy 6061

| Cast # | Lot No. | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Al | Others | | Melt Source |
|-------------|-----------|-------|------|------|------|------|------|------|------|------|-------|--------|-------|--------------------------|
| | | | | | | | | | | | | Each | Total | |
| 001M170313A | 201704837 | 6061 | 0.75 | 0.36 | 0.33 | 0.10 | 0.89 | 0.10 | 0.07 | 0.03 | 97.36 | 0.05 | 0.15 | United States of America |

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/30/2017

Rev 04/10

MILL TEST

CAL 114

| | | | | | | | |
|---------------------------------|--|---------------------------------|-----------------------------------|----------------------------|---------------------------------|---|------------------------|
| SHIP TO ACIER OUELLETTE | | CERT CODE: 1 | DIE NUMBER S 4783 | | DATE OF SHIPMENT Sep/29/2016 | ORDER NO. 197683 | MANIFEST NO. 357684 |
| SU DESCRIPTION 1.250" SQUARE | | CUSTOMER PO 100684 | ALLOT 6061 | SALESMAN HOUSE ACCOUNTS | | MADE IN CANADA | |
| | | CUSTOMER PART NUMBER DT04763 | PART DESCRIPTION 1.250" SQUARE | | | CERTIFICATION MILL TEST ASTM B221-14 | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell F | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Sep/22/2016 | 44.70 | 39.60 | 10.80 | 89.9,90.4,90.7 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Ga | V | B | Zr | Bi | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|------|------|------|------|-----|------|----|------|------|----|---|---|----|----|----|----|----|----|----|-------|
| 16097341B | A.11 | 6061 | 0.55 | 0.17 | 0.21 | 0.01 | 0.8 | 0.08 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

#2439

C73899



GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,
BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954

Fax: +84(0)643924953

MILL TEST CERTIFICATE

Date: 25 March, 2017

Consignee: SINOPEC TRADING INC.
4455 RUE COUSENS SAINT-LAURENT, QC, H4S 1X5, CANADA

PO number: P-17025

Shipping Ref No.: 17-0459

LC No.: DC HMN710996

Date of issue: 15 March, 2017

Item Code: 1906000

Die Number: D00242

Alloy & Temper: 6061-T6511

Production Description: FLAT BAR 1.5000" X 2.5000" X 12 6061-T6511 D00242

Length (inch): 144

Bundle number: P-17025-009

Heat Number: SXD170240

Date: 3/6/2017

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

| Si | Mg | Fe | Cu | Mn | Cr | Zn | Ti | Al | Other | | Remarks: |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|
| | | | | | | | | | EACH | TOTAL | |
| 0.623 | 0.928 | 0.206 | 0.267 | 0.016 | 0.101 | 0.011 | 0.021 | 97.732 | <0.05 | <0.10 | 3/3/2017 |

MECHANICAL ANALYSIS:

| Ult. Strength (ksi) | Yield Strength (ksi) | Elongation % LN 2" | Remark: |
|---------------------|----------------------|--------------------|----------|
| 40.7 | 35.4 | 10.9 | 3/3/2017 |

All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard, with chemical analysis and mechanical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY
TIỀN NHÔM TOÀN CẦU VIỆT NAM
GLOBAL VIETNAM ALUMINIUM
CO., LTD TESTING CENTER

R211559

#2610

FAL-381-20

418679RA-1405

FAL 381

MILL TEST

| | | | | | | | |
|------------------------|--|--------------------|--|----------------------|--|--------------------|--|
| SHIP TO | | ACIER OUELLETTE | | SO DESCRIPTION | | 1" X 3/8" FLAT BAR | |
| CUSTOMER PO | | 101434 | | CUSTOMER PART NUMBER | | DT02222 | |
| DIE NUMBER | | S 2222 | | DATE OF SHIPMENT | | Nov/03/2016 | |
| ALLOY | | 6061 | | TEMPER | | T6 | |
| PART DESCRIPTION | | 1" X 3/8" FLAT BAR | | SALESMAN | | HOUSE ACCOUNTS | |
| CERT CODE: | | 1 | | ORDER NO. | | 198958 - 1 | |
| MANIFEST NO. | | 359787 | | MADE IN CANADA | | | |
| MILL TEST ASTM B221-14 | | | | CERTIFICATION | | | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell E | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Oct/27/2016 | 43.50 | 39.30 | 18.40 | 88.2, 88.5, 87.9 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Pb | Cr | Ni | Zn | Al | V | B | Zr | Bi | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|-----|------|-----|------|------|------|----|------|------|---|---|----|----|----|----|----|----|----|-------|
| 384191 | A.11 | 6061 | 0.6 | 0.18 | 0.2 | 0.03 | 0.86 | 0.07 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.



David Natale
Quality Control Manager

1 - CUSTOMER COPY

Test de dureté Rockwell Rockwell Hardness Test

Client / Customer : **LES ACIERS TRANSBEC (1997) LTEE.**

Adresse / Address : **4054 BOUL LE CORBUSIER # 201
LAVAL, QC
H7L5R2**

commande Sapa / Sapa order # : **6110739**

bon de commande / Purchase order # : **OU-47005**

de matrice / Die # : **MS 16838**

Description: **SQUARE BAR 1.500"X1.50"**

Alliage & trempage / Alloy & temper: **6061 T6**

Longueur / Length: **6097 mm**

de contrôle / Control # : **80133-1**

de coulée / Cast # : **68055**

Dureté Rockwell E /
Rockwell E hardness : **95 HRE**

Min. requis /
Min. required : **88 HRE**

Max. permis /
Max. permitted : **100 HRE**

Composition chimique typique / Typical chemical composition :

| | Si | Fe | Cu | Mn | Mg | Cl | Zn | Ti |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|----------|----------|
| 6063 | 0.20 - 0.60 | 0.35 Max | 0.10 Max | 0.10 Max | 0.45 - 0.90 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005 | 0.60 - 0.90 | 0.35 Max | 0.10 Max | 0.10 Max | 0.40 - 0.60 | 0.10 Max | 0.10 Max | 0.10 Max |
| 6005A | 0.66 - 0.74 | 0.14 - 0.28 | 0.08 - 0.16 | 0.18 - 0.26 | 0.46 - 0.54 | 0.03 Max | 0.05 Max | 0.05 Max |
| 6061 | 0.40 - 0.80 | 0.70 Max | 0.15 - 0.40 | 0.15 Max | 0.80 - 1.20 | 0.04 - 0.35 | 0.25 Max | 0.15 Max |
| 6351 | 0.7 - 1.3 | 0.5 Max | 0.10 Max | 0.40 - 0.80 | 0.40 - 0.80 | — | 0.20 Max | 0.20 Max |

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la norme **ASTM B-221-14** excepté pour la section 8.2 (nombre de spécimen).

We hereby certify that the material supplied meets the chemical properties as published by the ASTM B-221-14 except for section 8.2 (number of specimen).

Sincèrement vôtre,
Yours truly,

date : **2014-12-15**



Gilles Pelletier
Technicien de la qualité
Quality technician

CAL 113

MILL TEST

| | | | | | | | | | | | |
|--------------------|--|----------------------|--|------------------|--|--------------------|--|------------------------|--|-------------|--|
| SHIP TO | | CERT CODE: | | DIE NUMBER | | DATE OF SHIPMENT | | ORDER NO. | | MANIFEST NO | |
| ACIER OUELLETTE | | 1 | | S 4769 | | Jan/19/2017 | | 201364 - 1 | | 363949 | |
| SODescription | | CUSTOMER PO | | ALLOY | | SALESMAN | | MADE IN CANADA | | | |
| 3" X 1.5" FLAT BAR | | 102749 | | 6061 T6 | | HOUSE ACCOUNTS | | CERTIFICATION | | | |
| | | CUSTOMER PART NUMBER | | PART DESCRIPTION | | 3" X 1.5" FLAT BAR | | MILL TEST ASTM B221-14 | | | |
| | | SO04769 | | | | | | | | | |

Mechanical Properties

| Lot | Alloy | Test Date | Ultimate Tensile Strength (KSI) | Yield Strength (KSI) | Percent Elongation | Hardness Rockwell F | Conductivity |
|------|-------|-------------|---------------------------------|----------------------|--------------------|---------------------|--------------|
| A.11 | 6061 | Jan/12/2017 | 42.40 | 39.00 | 13.70 | 86.0, 86.1, 86.3 | |

Chemical Composition

| Cast Number | Lot | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | V | B | Zr | Pb | Sn | Sr | Co | Al | Other |
|-------------|------|-------|-----|------|------|------|------|------|----|------|------|---|---|----|----|----|----|----|----|-------|
| 384719 | A.11 | 6061 | 0.6 | 0.14 | 0.19 | 0.03 | 0.86 | 0.06 | 0 | 0.01 | 0.01 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale

David Natale
Quality Control Manager

1 - CUSTOMER COPY

FAL 1123

TCA-2011
4927D

FAL-1123-V

2445

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606176B3.000x01.500 PO: BATCH NO. 038785/5033414
 DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 01.500
 THICKNESS RECEIVED: 01.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT FINISH | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORROSION | Y <input type="radio"/> N <input checked="" type="radio"/> | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>As per B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| PHOTO REQUIRED | Y <input type="radio"/> N <input checked="" type="radio"/> | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y <input type="radio"/> N | <u>Heat # 309719</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y <input type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input type="radio"/> N <input checked="" type="radio"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input type="radio"/> N <input checked="" type="radio"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|-----------------------------------|
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12.000

| | | | | |
|-----------|-------------|------|----|------|
| REV | DESCRIPTION | DATE | BY | DATE |
| A | NEW ISSUE | | | |
| DESIGN | DS | | | |
| DRAWN | | | | |
| CHECKED | | | | |
| MFG APPR. | | | | |
| APPROVED | | | | |
| DE APPR. | | | | |
| DATE | 09.07.13 | | | |

| | | |
|--|----|----------|
| REMOVE QQ-A-225/8 OPTION, REFORMAT NOTES, ADD ASTM B211/B21 (EN D 11) | CP | 09.07.13 |
| | DS | 01.08.08 |
| | BY | DATE |

| | |
|--|--------------|
| DART AEROSPACE LTD HAMMERSBURY, ONTARIO, CANADA | REV. B |
| DRAWING NO. M6061T6B | SHEET 1 OF 1 |
| TITLE 6061-T6 BAR | SCALE NTS |

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RELEASED
2009-05-03
JAD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061 T6 B1.500x01.500

PO. BATCH NO. 08785/5033413

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|-----------------------|--------------|
| SURFACE DAMAGE | Y (N) | |
| CORRECT FINISH | (Y) N | |
| CORROSION | Y (N) | |
| CORRECT GRAIN DIRECTION | (Y) N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) N | Astm B221 |
| CORRECT THICKNESS | (Y) N | |
| PHOTO REQUIRED | Y (N) | |
| CORRECT REF # TO LINK CERT | (Y) N | Heat # 68055 |
| CORRECT MATERIAL IDENTIFICATION | (Y) N | |
| CORRECT M# ON THE MATERIAL | (Y) N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|-------------------------------|----------------------|--|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>9-89 JAN 19 2018</u> | DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4154/116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW/

THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WWW.WWW" = WIDTH IN INCHES
 E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-09-03
 JMD

| | | | |
|------------|-------------|----------|----|
| REV | DESCRIPTION | DATE | BY |
| A | NEW ISSUE | 09.07.13 | DS |
| DESIGN | DS | | |
| DRAWN | AS | | |
| CHECKED | AS | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6B
 TITLE 6061-T6 BAR
 REV. B
 SHEET 1 OF 1
 SCALE NTS

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL 460616 B0.750x03.000

PO / BATCH NO. 038785/5033412

DATE: JAN 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20"
 QUANTITY INSPECTED: 20"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
 THICKNESS RECEIVED: 0.750
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|-----------------------|--------------|
| SURFACE DAMAGE | Y (N) | |
| CORRECT FINISH | (Y) N | |
| CORROSION | Y (N) | |
| CORRECT GRAIN DIRECTION | (Y) N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) N | |
| CORRECT THICKNESS | (Y) N | |
| PHOTO REQUIRED | Y (N) | |
| CORRECT REF # TO LINK CERT | (Y) N | Heat # 36740 |
| CORRECT MATERIAL IDENTIFICATION | (Y) N | |
| CORRECT M# ON THE MATERIAL | (Y) N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) |
|---|-------------------------------------|-----------------------------------|
| INSPECTED BY: <u>11</u> DATE: <u>JAN 19 2018</u> | SIGNED OFF BY: _____ DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING



PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW |

THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | | | |
|---|--|----|--------------|----|----------|
| REV | DESIGN | DS | DESCRIPTION | CP | 09.07.13 |
| A | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | DS | | DS | 01.08.08 |
| B | NEW ISSUE | | | | |
| DESIGN | DS | | | | |
| DRAWN | DS | | | | |
| CHECKED | DS | | | | |
| MFG. APPR | DS | | | | |
| APPROVED | DS | | | | |
| DE. APPR | DS | | | | |
| DATE | 09.07.13 | | | | |
| DART AEROSPACE LTD | | | REV. B | | |
| HAWKESBURY, ONTARIO, CANADA | | | SHEET 1 OF 1 | | |
| DRAWING NO. M6061T6B | | | SCALE | | |
| TITLE 6061-T6 BAR | | | NTS | | |
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RELEASED
 2009-05-03
 JWP

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M6061 T6 B0.375x01.250
 DATE: JAN 22 2018

PO BATCH NO 038785/5033411

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 60'
 QUANTITY INSPECTED: 60'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375
 THICKNESS RECEIVED: .375
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | <input checked="" type="radio"/> Y N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | <input checked="" type="radio"/> Y N | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="radio"/> Y N | <u>Astm B221</u> |
| CORRECT THICKNESS | <input checked="" type="radio"/> Y N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REF # TO LINK CERT | <input checked="" type="radio"/> Y N | <u>Ref # 201701926</u> |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="radio"/> Y N | |
| CORRECT M# ON THE MATERIAL | <input checked="" type="radio"/> Y N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|---|-------------------------------------|--|--|
| QC 16 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89</u> <u>JAN 22 2018</u> | SIGNED OFF BY: _____ DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**Service Center Metals**5850 Quality Way
Prince George, VA 23875**CERTIFIED INSPECTION REPORT AND TEST RESULTS
FOR EXTRUDED PRODUCTS**

| CUSTOMER NUMBER | ITEM |
|-----------------|------|
| 284260 | 1 |

| | | | |
|--------------------|-----------------|----------------------|-----------------------|
| | MANIFEST NUMBER | DIE NUMBER | DATE OF SHIPMENT |
| | 321955 | RB0082 | 2/7/2017 |
| | CUSTOMER PO | ALLOY / TEMPER | SALESPERSON |
| | G73927 | 6061-T8511 | D. Schroeder (Canada) |
| Quantity Certified | 1,214 lbs | CUSTOMER PART NUMBER | DESCRIPTION |
| 110 pcs | | V831232 | SCRB .375x1.250 |

| |
|-------------------------|
| CERTIFICATION |
| ASTM-B221-14 No Stencil |
| SPECIFICATION |
| AMS-QQA-200/8 Rev-A |

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T8511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

| Tests | Lot No. | Test Date | Ultimate Tensile Strength (KSI) | | Yield Strength (KSI) | | Percent Elongation | |
|-------|-----------|-----------|---------------------------------|-------|----------------------|-------|--------------------|-------|
| | | | min | max | min | max | min | max |
| 2 | 201701926 | 2/7/17 | 43.60 | 43.80 | 38.70 | 40.40 | 15.80 | 15.80 |

Chemical Composition for Aluminum Alloy 6061

| Cast# | Lot No. | Alloy | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Al | Others | | Melt Source: |
|-------------|-----------|-------|------|------|------|------|------|------|------|------|-------|--------|-------|--------------------------|
| | | | | | | | | | | | | Each | Total | |
| 002K170122B | 201701926 | 6061 | 0.61 | 0.22 | 0.18 | 0.07 | 0.85 | 0.07 | 0.01 | 0.02 | 97.98 | 0.05 | 0.15 | United States of America |

SCM products are melted and extruded in the USA

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 2/7/2017

Rev 09/16

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4154/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW WWW/
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|------------|---|----|----------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.08.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | DS | | |
| CHECKED | DS | | |
| MFG. APPR. | DS | | |
| APPROVED | DS | | |
| DE APPR. | DS | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. M6061T6B
TITLE 6061-T6 BAR

REV. B
SHEET 1 OF 1
SCALE NTS

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RELEASED
2009-09-03
ND



ACIER QUELLETTE INC.
935, Boul. du Havre
Sablery de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - CLIENT

CO00070815

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Alt: CHANTAL LAVOIE Tel: 613-632-5200

Instruction F-M

Delivery Route S

Page

1

Carrier

QUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Processed by

Josianne Bourdon

Your order N°

038785

Delivery date

2018/01/23

Date

2018/01/23

Customer N° CL10001056

| Product Description | Weight | Qty | U/M | PCS NB | | | Internal Use Only | | | | |
|---|--------|-------|----------|--------|-----|-----|-------------------|---|---|---|-----|
| | | | | CMD | EXP | B/O | IN | I | S | C | OUT |
| 1 FLAT ALU 3/8 X 1 1/4 6061-T6 RANDOM FAL-38114-V 2609 3 X 20' HEAT: 201701926 REFERENCE INVOICE 71934 | 33.06 | 60.00 | PL \$CLB | | | | | | | | |

Conditions:

All sold and delivered materials remain the property of "Acier Quellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Quellette Inc." is the same as offered and provided by the manufacturer and its warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Not 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, lost or mislaid cannot be returned. All goods returned must be with our authorization and are subject to a 25% reshipping charge.

Total Weight (lbs): 33.06

MIR: R-109516-6

Prepared By:

Verified By:

Delivered By:

Time

Y M D

Customer's Signature

Date

Total (\$CAD)

7606146B2.500x01.500 PD BATCH NO 038783/503340
JAN 19 2018

| | |
|--------------------|-----|
| QUANTITY RECEIVED | 24" |
| QUANTITY INSPECTED | 24" |
| QUANTITY REJECTED | 0 |

THICKNESS ORDERED: 01.500
THICKNESS RECEIVED: 01.500
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

[illegible]

| | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--------------------------------|--|-----|--|-------|--|-------|--|---------|
| DATE _____ | | | | | | ASTM FREEFORM A HARDNESS CHECK | | | | | | | | |
| _____ | | | | | | _____ | | | | | | | | |
| | | | | | | HRC | | HRB | | DUR A | | DUR D | | WEBSTER |
| TYPE OF MATERIAL _____ | | | | | | | | | | | | | | |
| SIZE OF THE SAMPLE _____ | | | | | | | | | | | | | | |
| HARDNESS / PENOMETER READING _____ | | | | | | | | | | | | | | |

testers located in the Quality Office

DAS
11
9-89 JAN 19 2018
SIGNED OFF BY _____
DATE _____

Attachment 1: Preparation of the corresponding material cost and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MD

| | | | | | |
|------------|----------|--|--------------|----|----------|
| B | | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2ND EDITION) | | CP | 09.07.13 |
| A | | NEW ISSUE | | DS | 01.08.08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | | | |
| CHECKED | DS | DRAWING NO. | REV. B | | |
| MFG. APPR. | DS | M6061T6B | SHEET 1 OF 1 | | |
| APPROVED | DS | TITLE | SCALE | | |
| DE APPR. | DS | 6061-T6 BAR | NTS | | |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD. | | | |

M606146B1.250X01.250

PC BATCH NO. 038785/5033409

JAN 19 2018

yes

2011

2011

④

THICKNESS ORDERED: 1.250

THICKNESS RECEIVED 1.250

3-4 LIT SIZE ORDERED N/A

SHEET SIZE RECEIVED N/A

| TYPICAL SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
|--|------|-------|-------|---------|
| TYPE | TEMP | DUR A | DUR D | WEBSTER |
| SIZE OF | | | | |
| HARDN | | | | |

testers located in the Quality Office

DATE: 9-89 JAN 19 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-08-03
 MP

| | | | | | |
|--------------|--|---|-------------|----|----------|
| REV | DESIGN | DS | DESCRIPTION | CP | 09.07.13 |
| A | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | DS | | DS | 01.08.08 |
| B | NEW ISSUE | DS | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | | | |
| CHECKED | DS | DRAWING NO | | | |
| MFG APPR | DS | M6061T6B | | | |
| APPROVED | DS | TITLE | | | |
| DE APPR | DS | 6061-T6 BAR | | | |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD. | | | |
| SHEET - OF 1 | | | | | |
| SCALE | | | | | |
| NTS | | | | | |

MATERIAL RECEIPT INSPECTION FORM

M60616 B1-000X12.000

PO BATCH NO 038785/5033408

JAN 19 2018

MATERIAL INTERFERED YES
 QUANTITY RECEIVED 12"
 QUANTITY INSPECTED 12"
 QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
 THICKNESS RECEIVED 1.000
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

| NCP (Optional) | | COMMENTS |
|-------------------|-------------------------------------|------------------|
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| CORRECT | <input checked="" type="checkbox"/> | Asym - B221 |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | Heat # 201704837 |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |

| TENSILE SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
|--|------|----------|-----|-----|
| RECORDED IN THE FOLLOWING | | | | |
| TYPE | SIZE | HARDNESS | HRC | HRB |
| | | | | |
| | | | | |
| | | | | |

Testers located in the Quality Office

ENGINEERING SIGNOFF (if required)

DAS 11 9-89
 JAN 19 2018

SIGNED OFF BY _____
 DATE: _____

Attach this inspection report with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

| | | | | | |
|----------|----|---|--|--|----------|
| B | | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1) | | CP | 09.07.13 |
| A | | NEW ISSUE | | DS | 01.06.08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | REV. B | |
| DRAWN | DS | DRAWING NO. | | SHEET 1 OF 1 | |
| CHECKED | DS | M6061T6B | | SCALE | |
| MFG APPR | DS | TITLE | | NTS | |
| APPROVED | DS | 6061-T6 BAR | | DATE 09.07.13 | |
| DE APPR. | DS | DATE 09.07.13 | | COPYRIGHT © 2001 BY DART AEROSPACE LTD | |

MATERIAL RECEIPT INSPECTION FORM

7606 176 B1.000X04.000
JAN 19 2018

PO BATCH NO. 038785/5033407

QUANTITY RECEIVED yes
QUANTITY INSPECTED 12"
QUANTITY REJECTED 0

THICKNESS ORDERED 1.000
THICKNESS RECEIVED 1.000
SHEET SIZE ORDERED 2/9
SHEET SIZE RECEIVED N/A

| NOF (Check) | COMMENTS |
|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | Astun B221 |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | West #387163 3B7163 |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> | |

| DO NOT PREFORM A HARDNESS CHECK. | | | | |
|----------------------------------|-----|-------|-------|---------|
| TYPE C | IND | DUR A | DUR D | WEBSTER |
| SIZE OF | | | | |
| HARDNESS / DUNOMETER READING | | | | |

testers located in the Quality Office

ENGINEERING SIGNOFF (if required)

DAS
11
9-89 JAN 19 2018

SIGNED OFF BY _____
DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ~~ASTM B221~~

PART NUMBER: M6061T6B | T.TTT | X | WW WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-08-03
MD

| | | | | | |
|-----------|----------|--|--|--------------|----------|
| B | | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1) | | CP | 09 07 13 |
| A | | NEW ISSUE | | DS | 01 06 08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | | | |
| CHECKED | DS | DRAWING NO. | | REV. B | |
| MFG APPR. | DS | M6061T6B | | SHEET 1 OF 1 | |
| APPROVED | DS | TITLE | | SCALE | |
| DE APPR. | DS | 6061-T6 BAR | | NTS | |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD | | | |

038785/5033406

PO / BATCH NO

JAN 19 2004

| | |
|--------------------|------------------|
| MATERIALS RECEIVED | Yes |
| QUANTITY RECEIVED | 12 ¹¹ |
| QUANTITY INSPECTED | 12 ¹¹ |
| QUANTITY REJECTED | 0 |

THICKNESS ORDERED: 0.500
THICKNESS RECEIVED 0.500
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

[illegible]

| | | | | |
|--|-------|-------|-------|---------|
| TYPE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
| TYPE C | DUR B | DUR A | DUR D | WEBSTER |
| SIZE OF TEST BLOCK | | | | |
| HARDNESS INDENTOMETER READING | | | | |

testers located in the Quality Office

QC-18 **DAS** **ENGINEERING SIGNOFF (if required)**

INSPECTED BY **DAS** SIGNED OFF BY _____
11
9-89
JAN 19 DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
 SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ~~ASTM B221~~

PART NUMBER:

M6061T6B T.TT X WW.WWW/
 THICK WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
 "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|----------|--|----|----------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | | | |
| CHECKED | AS | | |
| MFG APPR | | | |
| APPROVED | | | |
| DE APPR | | | |
| DATE | 09.07.13 | | |

DART AEROSPACE LTD
 HAWKESBURY, ONTARIO, CANADA
 DRAWING NO. M6061T6B
 TITLE 6061-T6 BAR
 REV. B
 SHEET 1 OF 1
 SCALE
 NTS

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 PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION
 STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION
 IN WRITING FROM DART AEROSPACE LTD.

RELEASED
 2009-09-03
MD

MATERIAL RECEIPT INSPECTION FORM

M6061T6 B0.500X1.500

JAN 19 2018

PO / BATCH NO. 038785/5033405

MATERIAL MAT RY yes
 QUANTITY RECEIVED 20"
 QUANTITY INSPECTED 20"
 QUANTITY REQUESTED 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| NCR | | COMMENTS |
|----------------------------------|----------------------------------|-------------|
| Y/V | Y/V | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | Astm B221 |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | Heat #68295 |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |
| <input checked="" type="radio"/> | <input checked="" type="radio"/> | |

| FOR MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
|--|--------------|--------|-------|-------|
| TYPE | SIZE OF TEST | HARD C | DUR A | DUR D |
| | | | | |
| | | | | |
| | | | | |

testers located in the Quality Office

| | |
|---|-----------------------------------|
| ENGINEERING SIGNOFF (if required) | |
| DAS 11 9-80 JAN 19 2019 | SIGNED OFF BY _____ DATE _____ |

Attach this inspection form to the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TT | X | WW.WWW | THICK | WIDTH

WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-05-03
MD

| | | | | | |
|--|----|--|--|--------------|----------|
| B | | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2ND-1) | | CP | 09.07.13 |
| A | | NEW ISSUE | | DS | 01.06.08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | REV B | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | | SHEET 1 OF 1 | |
| CHECKED | AS | DRAWING NO | | SCALE | |
| MFG. APPR | AS | M6061T6B | | NTS | |
| APPROVED | MD | TITLE | | DATE | |
| DE APPR | MD | 6061-T6 BAR | | 09.07.13 | |
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MATERIAL RECEIPT INSPECTION FORM

7606176 B0.500x06.000

PC BATCH NO

038785/5033404

JAN 19 2018

MATER / 1 - 15 T P 1 2

Yes

QUESTIONS

40''

THE NEW YORK PUBLIC LIBRARY

40%

QUANTITY REJECTED

THICKNESS ORDERED: 0.500

0.500

THICKNESS RECEIVED. 0.500

0.500

SHEET SIZE ORDERED N/A

N/A

SHEET SIZE RECEIVED N/A

N/A

| NCF | | COMMENTS |
|---------|------------------------------------|--------------|
| (Check) | Y/V | |
| | <input checked="" type="radio"/> | |
| | <input checked="" type="radio"/> N | |
| | <input checked="" type="radio"/> N | |
| CCRP | <input checked="" type="radio"/> N | |
| CORRECT | <input checked="" type="radio"/> N | Astm B221 |
| COM | <input checked="" type="radio"/> N | |
| | <input checked="" type="radio"/> | |
| COR | <input checked="" type="radio"/> N | Heat # 36629 |
| CO | <input checked="" type="radio"/> | |
| COR | <input checked="" type="radio"/> N | |
| DEC | <input checked="" type="radio"/> | |
| | <input checked="" type="radio"/> | |
| | <input checked="" type="radio"/> N | |

| | | | | |
|---|-----|-------|-------|---------|
| OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
| TYPE | IRB | DUR A | DUR D | WEBSTER |
| SIZE OF | | | | |
| HARDNESS | | | | |

testers located in the Quality Office

| | | | |
|-------------------------------------|--|----------------------|--|
| INSPECTED BY: DAS 11 9-89 | | SIGNED OFF BY: _____ | |
| JAN 19 2018 | | DATE | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WW.WWW
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03

| | | | |
|-----------|--|--|--------------|
| B | REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (Zn D7-1) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | gls | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | gls | DRAWING NO. | REV. B |
| MFG APPR. | gls | M6061T6B | SHEET 1 OF 1 |
| APPROVED | gls | TITLE | SCALE |
| DE APPR. | gls | 6061-T6 BAR | NTS |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD | |

MATERIAL RECEIPT INSPECTION FORM

M606176B0.500x02.500 PO BATCH NO 038785/5033403
 DATE JAN 19 2018

QUANTITY RECEIVED yes
 QUANTITY INSPECTED 20"
 QUANTITY REJECTED 0

THICKNESS ORDERED 0.500
 THICKNESS RECEIVED 0.500
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

| | NCR | COMMENTS |
|----------------------------|-------------------------------------|-------------|
| | Y/N | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| CORRECT GRAIN | <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL / DRAWING | <input checked="" type="checkbox"/> | Asm B221-14 |
| CORRECT | <input checked="" type="checkbox"/> | |
| CORRECT | <input checked="" type="checkbox"/> | |
| CORRECT | <input checked="" type="checkbox"/> | |
| CORRECT | <input checked="" type="checkbox"/> | |
| DOES THE | <input checked="" type="checkbox"/> | |
| ENGIN | <input checked="" type="checkbox"/> | |
| DOES | <input checked="" type="checkbox"/> | |
| ENGIN | <input checked="" type="checkbox"/> | |

| HARDNESS CHECK | | | | |
|----------------|---------|----------|-------|-------|
| TYPE | SIZE OF | HARDNESS | DUR A | DUR D |
| | | | | |
| | | | | |
| | | | | |

Testers located in the Quality Office

| ENGINEERING SIGNOFF (if required) | |
|-----------------------------------|------|
| SIGNED OFF BY | DATE |
| | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
R 2009-09-03
MAD

| | | | | | |
|------------|----------|--|--------------|----|----------|
| B | | REMOVE QQ-A-250/1 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (CN D7-1) | | CP | 09/07/13 |
| A | | NEW ISSUE | | DS | 01/06/08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | | |
| DRAWN | AP | HAWKESBURY, ONTARIO, CANADA | | | |
| CHECKED | AP | DRAWING NO. | REV. B | | |
| MFG. APPR. | AP | M6061T6B | SHEET 1 OF 1 | | |
| APPROVED | AP | TITLE | SCALE | | |
| DE APPR. | AP | 6061-T6 BAR | NTS | | |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED TO ANY OTHER REFERENCE NOT TO BE USED FOR ANY PURPOSES OTHER THAN THE EXACT ONE FOR WHICH IT WAS ORIGINALLY DEVELOPED FOR THE DART AEROSPACE LTD | | | |

MATERIAL RECEIPT INSPECTION FORM

M606176 B0.375x02.000

PO BA CH NO 038785/5033402

JAN 19 2018

MATERIAL TEST REQD

Yes

QUANTITY RECEIVED

40"

QUANTITY EXPECTED

40"

QUANTITY RECEIVED

0

THICKNESS ORDERED:

0.375

THICKNESS RECEIVED:

0.375

SHEET SIZE ORDERED

N/A

SHEET SIZE RECEIVED

N/A

| | NCR | COMMENTS |
|----------------------|-----|------------------|
| | Y/N | |
| CORRECT MATERIAL PER | Y | |
| CORRECT THICKNESS | Y | |
| CORRECT SHEET SIZE | Y | |
| CORRECT MATERIAL PER | Y | Astm B221 |
| CORRECT THICKNESS | Y | |
| CORRECT SHEET SIZE | Y | Heat # 54P171944 |
| CORRECT MATERIAL PER | Y | |
| CORRECT THICKNESS | Y | |
| CORRECT SHEET SIZE | Y | |
| CORRECT MATERIAL PER | Y | |
| CORRECT THICKNESS | Y | |
| CORRECT SHEET SIZE | Y | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | |
|--|-----|-----|-------|-------|
| ECONOMY RESULTS BELOW | | | | |
| | HRC | HRB | DUR A | DUR D |
| TYPE OF MATERIAL | | | | |
| SIZE OF TEST SAMPLE | | | | |
| HARDNESS (DURUMETER) READING | | | | |

testers located in the Quality Office

| ENGINEERING SIGNOFF (if required) | |
|-----------------------------------|-------------------------------------|
| DAS 11 9-08 JAN 19 2018 | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

| | | | |
|------------|---|---|--------------|
| B | REMOVE QQ-A-250/1 (OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (EN 07-1)) | CP | 09.07.13 |
| A | NEW ISSUE | DS | 01.06.08 |
| REV | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | DS | DRAWING NO. | REV B |
| MFG. APPR. | DS | M6061T6B | SHEET 1 OF 1 |
| APPROVED | DS | TITLE | SCALE |
| DE APPR. | DS | 6061-T6 BAR | NTS |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD. | |

RELEASED
2009-05-03
N

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H650-250X6.250

PO. BATCH NO. 038785/5033401

DATE: JAN 22 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24"
 QUANTITY INSPECTED: 24"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.250
 THICKNESS RECEIVED: 0.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|----------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORROSION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N <input type="radio"/> | Heat # |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT M# ON THE MATERIAL | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N <input type="radio"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|-----------------------------------|
| INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 JAN 22 2018</u> | SIGNED OFF BY: _____ DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET
SPECIFICATION
QA-A-250/11 OR AMS-QA-A-250/11
OR AMS 4025 OR AMS 4027
OR ASTM B209

PART NUMBER: M6061T6S|XXX|THK|

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

RELEASED
2009-09-10
MRF

| | | | | | | |
|--|-------------|--|--|----|--------------|------|
| B | | REFORMAT DWG. ADD B209 SPEC (2N 08-1). | | CP | 09.07.13 | |
| A | | NEW ISSUE | | DS | 01.06.08 | |
| REV | DESCRIPTION | | | | BY | DATE |
| DESIGN | DRAWN | | | | REV. B | |
| CHECKED | MFG. APPR | | | | SHEET 1 OF 1 | |
| APPROVED | DE APPR | | | | SCALE | |
| DATE | 09.07.13 | | | | NTS | |
| DART AEROSPACE LTD HAMMERSBURY, ONTARIO, CANADA | | | | | | |
| DRAWING NO. M6061T6S | | | | | | |
| TITLE 6061-T6 SHEET SPEC | | | | | | |
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MATERIAL RECEIPT INSPECTION FORM

M6061H6 B0.250X3.000
JAN 19 2018

PO BATCH NO 038785/033400

MATERIAL TEST REQUIRED yes
QUANTITY ORDERED 20"
QUANTITY RECEIVED 20"
QUANTITY REJECTED 0

THICKNESS ORDERED 0.250
THICKNESS RECEIVED 0.250
SHEET SIZE ORDERED N/A
SHEET SIZE RECEIVED N/A

| ITEM | NCR (Check) | COMMENTS |
|--------------------------------|-------------------------------------|--------------|
| CORRECT GRAIN DIRECTION | <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL PER D-DRAWING | <input checked="" type="checkbox"/> | |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> | Astm B221 |
| CORRECT PLATING | <input checked="" type="checkbox"/> | |
| CORRECT | <input checked="" type="checkbox"/> | Heat # 67915 |
| CORRECT | <input checked="" type="checkbox"/> | |
| DOES IT | <input checked="" type="checkbox"/> | |
| ENGINEERING SIGNOFF | <input checked="" type="checkbox"/> | |
| DOES THIS ALL | <input checked="" type="checkbox"/> | |
| EXTRUSION REPORT | <input checked="" type="checkbox"/> | |

| OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|---|-----|-----|-------|-------|---------|
| | HRC | HRD | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF | | | | | |
| HARDNESS | | | | | |

testers located in the Quality Office

| ENGINEERING SIGNOFF (if required) | |
|-----------------------------------|------|
| SIGNED OFF BY | DATE |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:
 QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
 OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
 OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6B | T.TTT | X | WWW.WWW | THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
 "WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
 2009-05-03
MD

| | | | | | |
|---|-----------|---|--|---------------|----------|
| B | | REMOVE QQ-A-250/11 OPTION REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1) | | CP | 09 07 13 |
| A | | NEW ISSUE | | DS | 01 06 08 |
| REV | | DESCRIPTION | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | | | |
| DRAWN | <i>MD</i> | HAWKESBURY, ONTARIO, CANADA | | REV. B | |
| CHECKED | <i>MD</i> | DRAWING NO. | | SHEET 1 OF 1 | |
| MFG. APPR | <i>MD</i> | M6061T6B | | SCALE | |
| APPROVED | <i>MD</i> | TITLE | | NTS | |
| DE APPR | <i>MD</i> | 6061-T6 BAR | | DATE 09.07.13 | |
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MATERIAL RECEIPT INSPECTION FORM

M606146BO.250x01.000

PC BATCH NO

0387856033399

JAN 19 2018

MATERIALE

yes.

QUANTITY RECEIVED

20

QUANTITATIVE EFFECTS

20'

QUANTITY SELECTED



THICKNESS ORDERED: 0.250

O-250

THICKNESS RECEIVED: 0.250

0.250

SHEET SIZE ORDERED N/A

N/A

SHEET SIZE RECEIVED: N/A

N/A

| NCR | | COMMENTS |
|------------------------|-----|-------------------|
| (Check) | Y/V | |
| | Y | |
| | Y | |
| | Y | |
| CORRECT | Y | |
| CORRECT MATERIAL PER I | Y | Astm B221 |
| CORRECT | Y | |
| CORRECT | Y | |
| CORRECT | Y | Heat # 5XA-160988 |
| CORRECT | Y | |
| DOES | Y | |
| EN | Y | |
| D | Y | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. | | | | | |
|--|--------|------------|-------|-------|---------|
| | RECORD | TEST BELOW | | | |
| | DUR C | DUR B | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUYOMETER READING | | | | | |

testers located in the Quality Office

QC-18 (Rev. 4-91) **ENGINEERING SIGNOFF (if required)**

INSPECTED BY DAS 11 SIGNED OFF BY _____

9-89 DATE JAN 19 2018

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T652 ALUMINUM BAR

SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/415/416)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B1 T.TTT X WW WWW

THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1 000X12 000

| | | | |
|-----------|---|--|--------------|
| B | REMOVE QQ-A-225/8 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1) | CP | 09 07 13 |
| A | NEW ISSUE | DS | 01 06 08 |
| REV | | BY | DATE |
| DESIGN | DS | DART AEROSPACE LTD | |
| DRAWN | DS | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | AS | DRAWING NO. | REV. B |
| MFG APPR. | AS | M6061T6B | SHEET 1 OF 1 |
| APPROVED | AS | TITLE | SCALE |
| DE APPR. | AS | 6061-T6 BAR | NTS |
| DATE | 09.07.13 | COPYRIGHT © 2001 BY DART AEROSPACE LTD | |

RELEASED
2009-09-03

MATERIAL RECEIPT INSPECTION FORM

MT-4140QT-R0.750
JAN 19 2018

PO BATCH NO 038785/5033398

MATERIAL IDENTIFIED: Yes
QUANTITY RECEIVED: 20'
QUANTITY ORDERED: 20'
QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750
THICKNESS RECEIVED: 0.750
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

| | NCR (Check Y/N) | COMMENTS |
|---------------------------------|-------------------------------------|----------|
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL PER M-DRAWING | <input checked="" type="checkbox"/> | |
| CORRECT THICKNESS | <input checked="" type="checkbox"/> | |
| PHOTO REQUIRED | <input checked="" type="checkbox"/> | |
| CORRECT IDENTIFICATION | <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL IDENTIFICATION | <input checked="" type="checkbox"/> | |
| DOES THIS MATERIAL REQUIRE | <input checked="" type="checkbox"/> | |
| END OF LINE | <input checked="" type="checkbox"/> | |
| DOES THIS MATERIAL REQUIRE | <input checked="" type="checkbox"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | |
|--|-----|-----|-------|-------|
| TYPE C | HRC | HRB | DUR A | DUR D |
| SIZE OF | | | | |
| HARDNESS | | | | |

testers located in the Quality Office

| | |
|---|-------------------------------------|
| ENGINEERING SIGNOFF (if required) | |
| DAS 11 9:00 JAN 19 2018 | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 QUENCHED & TEMPERED STEEL ROUND BAR

SPECIFICATION: ASTM 4140 QT or ASTM 4142 QT

PART NUMBER: MT-4140QT-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = MT-4140QT-R0.625

| REV. | DESCRIPTION | DATE | BY | APPROVED |
|------|-------------|----------|----|----------|
| A | NEW ISSUE | 17.09.12 | WM | WM |

| | | | |
|--|---|-------------------------------|--------------|
| DART AEROSPACE | | Headquarters, Ontario, Canada | |
| TITLE AISI 4140 Q&T ROUND BAR | | | |
| DWG NO MT-4140QT-R | | REV A | |
| DESIGN BY VM 5/9/2017 | XXX 985 X 2 1 X 1 1 | FRAGMENTS ANGLES 2.5" | |
| DRAWN BY VM 09/14/2017 | SURFACES 0.15 | | |
| CHECKED VM 09/14/2017 | 1. DIMENSIONS AND TOLERANCES 2. INTERPRET DIM AND TOL PER 3. DIMENSIONAL LIMITS APPLY | | |
| MFG APPR PD 09/14/2017 | APPROVED BY WM 09/14/2017 | | |
| DATE: 9/14/2017 | SCALE: NTS | WEIGHT: 0.0 LBS | SHEET 1 OF 1 |
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EW 11-65

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M304R 0.750
DATE JAN 19 2018

PO BATCH NO 038785/5033397

MATERIAL IDENTIFIED YES
QUANTITY RECEIVED 96"
QUANTITY INSPECTED 96"
QUANTITY REJECTED 0

THICKNESS ORDERED: .750
THICKNESS RECEIVED: .750
SHEET SIZE ORDERED: N/A
SHEET SIZE RECEIVED: N/A

| | NCR (Check Y/N) | COMMENTS |
|--------------------------------|--|--------------------|
| | Y <input checked="" type="checkbox"/> N <input type="checkbox"/> | |
| | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| CORRECT GRAIN DIRECTION | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| CORRECT MATERIAL PER M-DRAWING | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | <u>Astm A276</u> |
| CORRECT THICKNESS | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| CORRECT FINISH | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| CORRECT | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | <u>Heat # 249P</u> |
| CORRECT | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| DOES IT MEET ALL REQUIREMENTS | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| EXCEPTIONS | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |
| DISCREPANCIES | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRD | DUR A | DUR D | WEBSTER |
| TYPE C | | | | | |
| SIZE OF | | | | | |
| HARDNESS | | | | | |

testers located in the Quality Office

| | | | |
|--|--|-------------------------------------|--|
| QC 18 | | ENGINEERING SIGNOFF (if required) | |
| DAS 11 9-89 JAN 19 2018 | | SIGNED OFF BY: _____ DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR

(NOTE: AISI 303 NOT ACCEPTABLE)

SPECIFICATION:

ASTM A276

PART NUMBER:

M304R D.D.D.
DIA.

WHERE "D.D.D." = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M304R0.750

RELEASED
09/07/15

| | | | |
|---|-------------|-----|----------|
| REFORMAT DWG. ADD SPECS (ZN D6-11) | 09 07 15 | | |
| REF PART 08-020A | | | |
| REV | DESCRIPTION | BY | DATE |
| A | NEW ISSUE | AJS | 08 03 03 |
| DESIGN | AJS | | |
| DRAWN | | | |
| CHECKED | | | |
| MFG. APPR | | | |
| APPROVED | | | |
| DE APPR | | | |
| DATE | 09.07.15 | | |
| DART AEROSPACE LTD HAMMERSBURY, ONTARIO, CANADA | | | |
| DRAWING NO. M304R | | | |
| TITLE 304/316 ROUND BAR | | | |
| REV. B | | | |
| SHEET 1 OF 1 | | | |
| SCALE NTS | | | |
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MATERIAL RECEIPT INSPECTION FORM

PART NO. M1012R 1.250
 DATE JAN 19 2018

PO BATCH NO. 038785/603396

MATERIAL CERT REQUIRED YES
 QUANTITY RECEIVED 20"
 QUANTITY INSPECTED 20"
 QUANTITY REJECTED 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED 1.250
 SHEET SIZE ORDERED N/A
 SHEET SIZE RECEIVED N/A

| ITEM | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|------------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER DRAWING | Y <input checked="" type="radio"/> N | <u>Aston A108</u> |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT IDENTIFICATION | Y <input checked="" type="radio"/> N | <u>Heat # 41892 AG</u> |
| CORRECT MARKING | Y <input checked="" type="radio"/> N | |
| CORRECT LABELING | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTENSION REPORT | Y <input checked="" type="radio"/> N | |

| TYPICAL HARDNESS CHECK | | | | |
|------------------------------|-----|-----|-------|-------|
| RECORD RESULTS BELOW | | | | |
| TYPE OF MATERIAL | HRC | HRB | DUR A | DUR D |
| SIZE OF TEST SAMPLE | | | | |
| HARDNESS / DUROMETER READING | | | | |

testers located in the Quality Office

| | | |
|---------|---------------------------------|--|
| QC 1811 | DAS 11 9-89 | ENGINEERING SIGNOFF (if required) |
| INS. BY | DATE: JAN 19 2018 | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION:

MIL-S-7097 OR ASTM A108

PART NUMBER:

M1018-R/D DDD WHERE D DDD = DIAMETER IN INCHES
DIA.

EG 7/8" ROUND BAR = M1018-R0 875

TOLERANCES

PER ASTM A108 AS FOLLOWS:

SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-24

| | | | |
|------------|---|----|----------|
| B | REFORMAT. ADD ASTM A108, ADD TOLERANCES | CP | 12.09.05 |
| A | NEW ISSUE | DS | 01.06.12 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | DS | | |
| DRAWN | CP | | |
| CHECKED | AP | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 12.09.05 | | |

| | | |
|-----------------------------|--|--------------|
| DART AEROSPACE LTD | | REV. B |
| HAWKESBURY, ONTARIO, CANADA | | SHEET 1 OF 1 |
| DRAWING NO. M1018-R | | SCALE |
| TITLE 1018-1025 ROUND BAR | | NTS |

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-0.8750W0.120 PO / BATCH NO. 08785/5033395
 DATE: JAN 19 2018

MATERIAL CERT REQ'D: yes THICKNESS ORDERED: W0.120
 QUANTITY RECEIVED: 60' THICKNESS RECEIVED: W0.120
 QUANTITY INSPECTED: 60' SHEET SIZE ORDERED: N/A
 QUANTITY REJECTED: 0 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--------------------------------------|-----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N | |
| CORROSION | Y <input checked="" type="radio"/> N | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N | <u>Astm A513</u> |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N | |
| CORRECT REPT. TO MFG | Y <input checked="" type="radio"/> N | <u>Heat # D651089</u> |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N | |
| CORRECT MARK ON THE MATERIAL | Y <input checked="" type="radio"/> N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input checked="" type="radio"/> N | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input checked="" type="radio"/> N | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|--------------------------|----------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>11</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>JAN 19 2018</u> | DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-D.DDDJ(WT.TTT)

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120

| REV. | DESCRIPTION | ECN # | DATE | BY | APPROVED |
|------|--------------------------------|--------|----------|----|----------|
| A | NEW RELEASE | 17-655 | 17.09.06 | VM | VM |
| B | TYPE 5 ADDED, TEMPLATE UPDATED | 17-790 | 17.12.13 | VM | ML |

| | |
|--|-------------------|
| DART AEROSPACE Hamilton, Ontario, Canada | |
| TITLE: ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM) | |
| PART NO: | REV: B |
| TOOL NO: | |
| UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS ARE TO BE HOLDING | |
| DESIGNED BY: VM 17/12/13 | TOLERANCE: ± .18 |
| DRAWN BY: VM 12/13/2017 | ANGLES: ± .5° |
| CHECKED BY: ML 12/20/2017 | ROUGHNESS: X ± .1 |
| APPROVED BY: ML 12/20/2017 | SCALE: NTS |
| SHEET 1 OF 1 | |
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A513-T-1.000W0.120

PO / BATCH NO: 038785/5033394

DATE: JAN 18 2018

MATERIAL CERT REQ'D: YES
 QUANTITY RECEIVED: 100'
 QUANTITY INSPECTED: 100'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W.0120
 THICKNESS RECEIVED: W.0120
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | COMMENTS |
|--|--|----------------------|
| SURFACE DAMAGE | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT FINISH | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORROSION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT GRAIN DIRECTION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT MATERIAL PER M-DRAWING | Y <input checked="" type="radio"/> N <input type="radio"/> | <u>A513</u> |
| CORRECT THICKNESS | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| PHOTO REQUIRED | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT REF # TO LINK CERT | Y <input checked="" type="radio"/> N <input type="radio"/> | <u>Heat # 037954</u> |
| CORRECT MATERIAL IDENTIFICATION | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| CORRECT M# ON THE MATERIAL | Y <input checked="" type="radio"/> N <input type="radio"/> | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y <input type="radio"/> N <input checked="" type="radio"/> | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y <input type="radio"/> N <input checked="" type="radio"/> | |

| CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| | | | |
|-------------------------------|----------------------|-----------------------------------|--|
| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
| INSPECTED BY: <u>DAS</u> | SIGNED OFF BY: _____ | | |
| DATE: <u>9-89 JAN 18 2018</u> | DATE: _____ | | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

8 7 6 5 4 3 2 1

| REV. | DESCRIPTION | ECN # | DATE | BY | APPROVED |
|------|--------------------------------|--------|----------|----|----------|
| A | NEW RELEASE | 17-655 | 17.09.06 | VM | WM |
| B | TYPE 5 ADDED, TEMPLATE UPDATED | 17-790 | 17.12.13 | VM | ML |

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A513 TYPE 5 (1020/1026) SEAMLESS ALLOY STEEL ROUND TUBING (DOM)

SPECIFICATION: ASTM A513 TYPE 5

PART NUMBER: MT-A513-T-D.DDDJ[WT.TTT]

WHERE D.DDD IS OUTSIDE DIAMETER IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 3/4" ROUND TUBING WITH .120" WALL THICKNESS = MT-A513-T-0.750W0.120



TITLE
ASTM A513 TYPE 5 (1020/1026) ALLOY STEEL ROUND TUBING (DOM)

PART NO.
MT-A513-T

TOOL NO.
-

DESIGNED BY: VM 17/12/13
CHECKED BY: VM 12/13/2017
MFG REVIEW BY: DP 12/20/2017
APPROVED BY: ML 12/20/2017

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS APPL. AFTER FINISHING. TOLERANCES: FRACTIONS ± .005, DECIMALS ± .01, SURFACE ± .1, ROUGHNESS X ± .1.

SCALE: NTS
SHEET 1 OF 1
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